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FIG.1

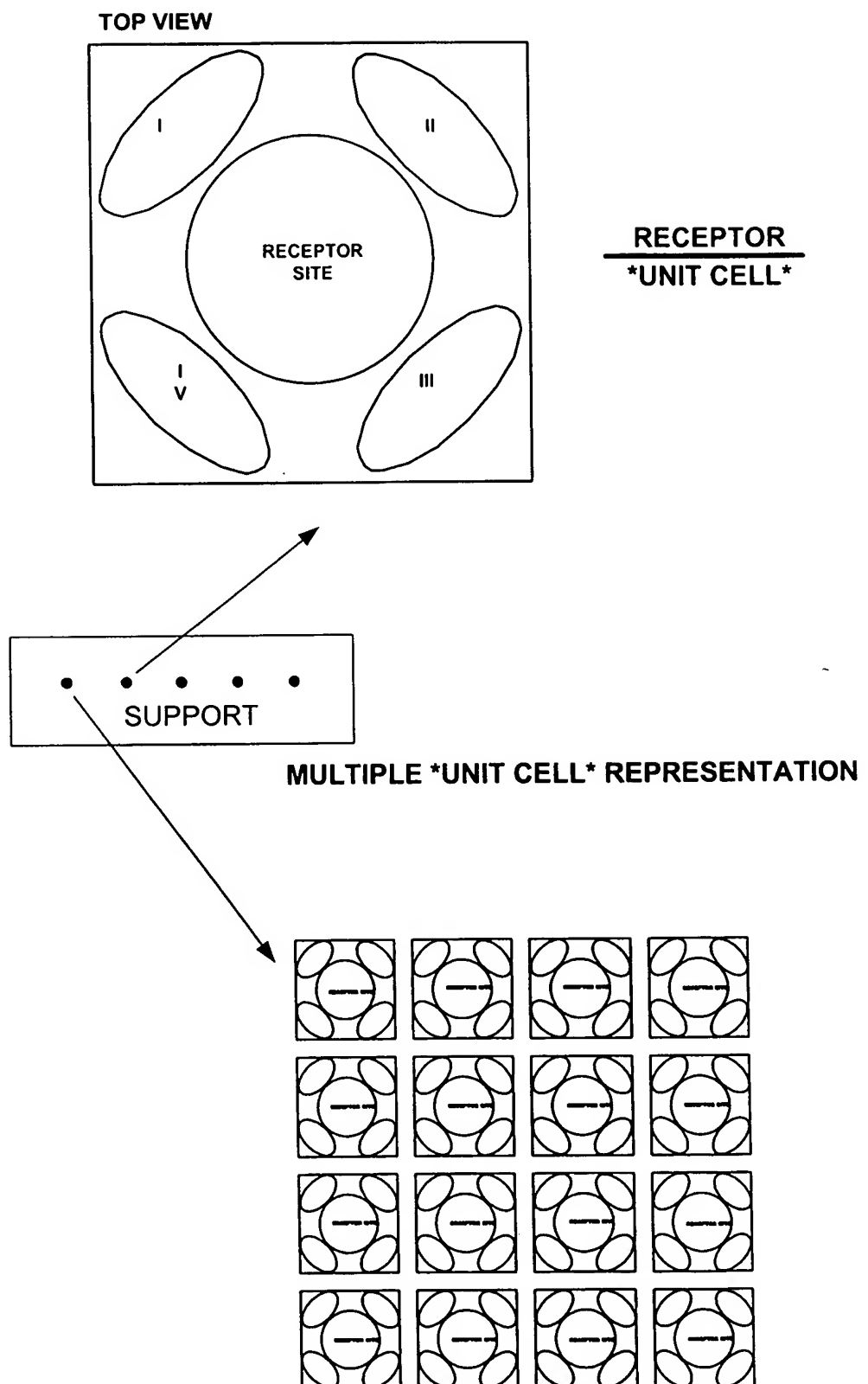


FIG.2

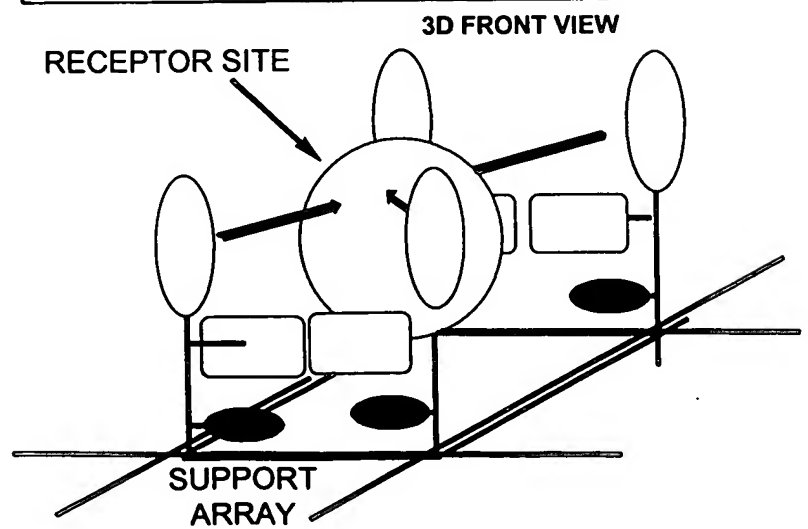
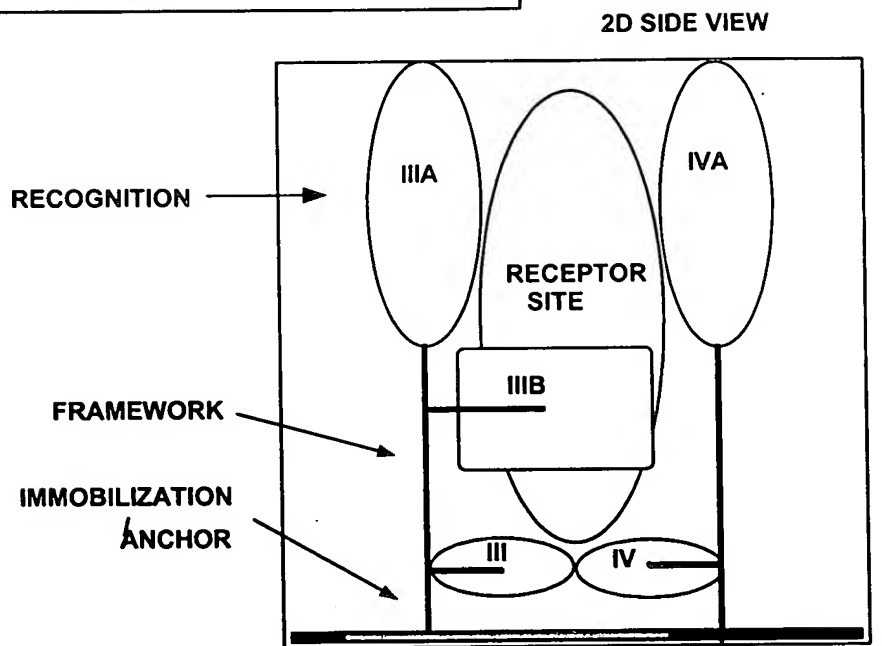
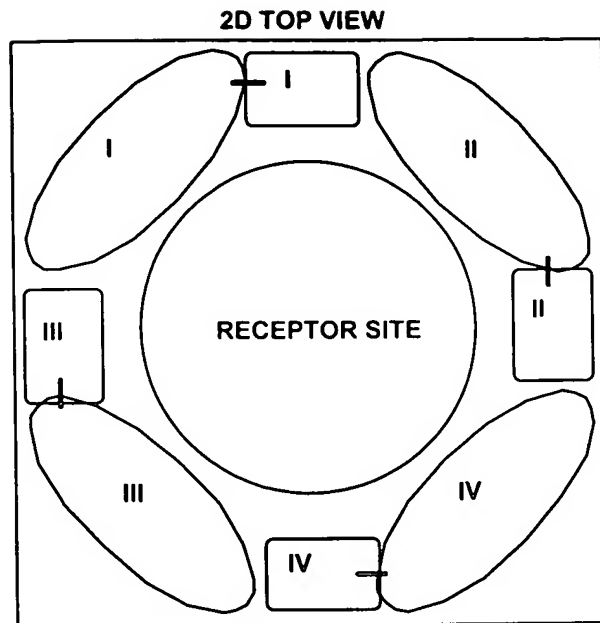
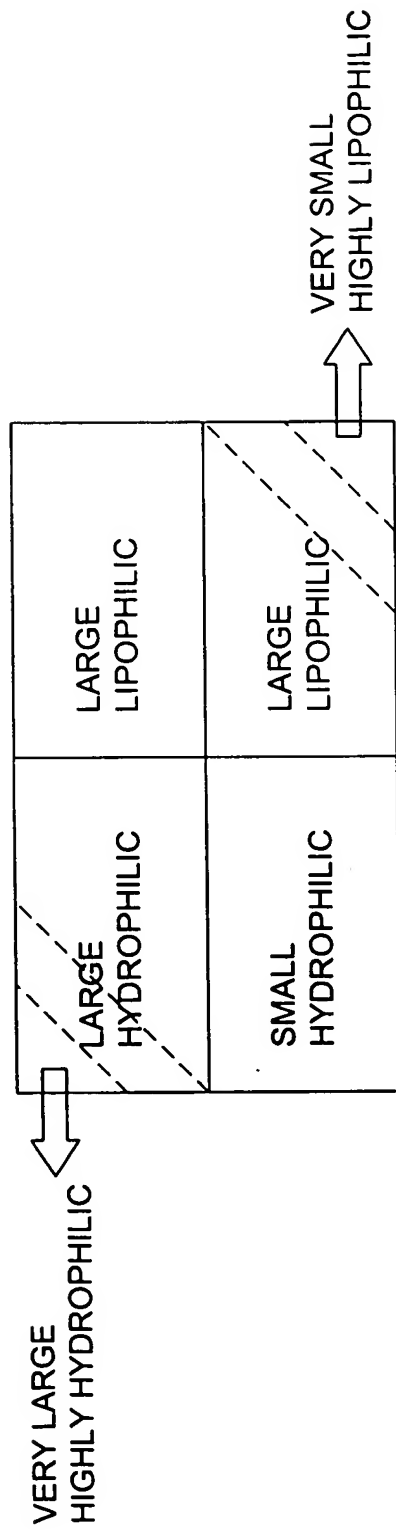
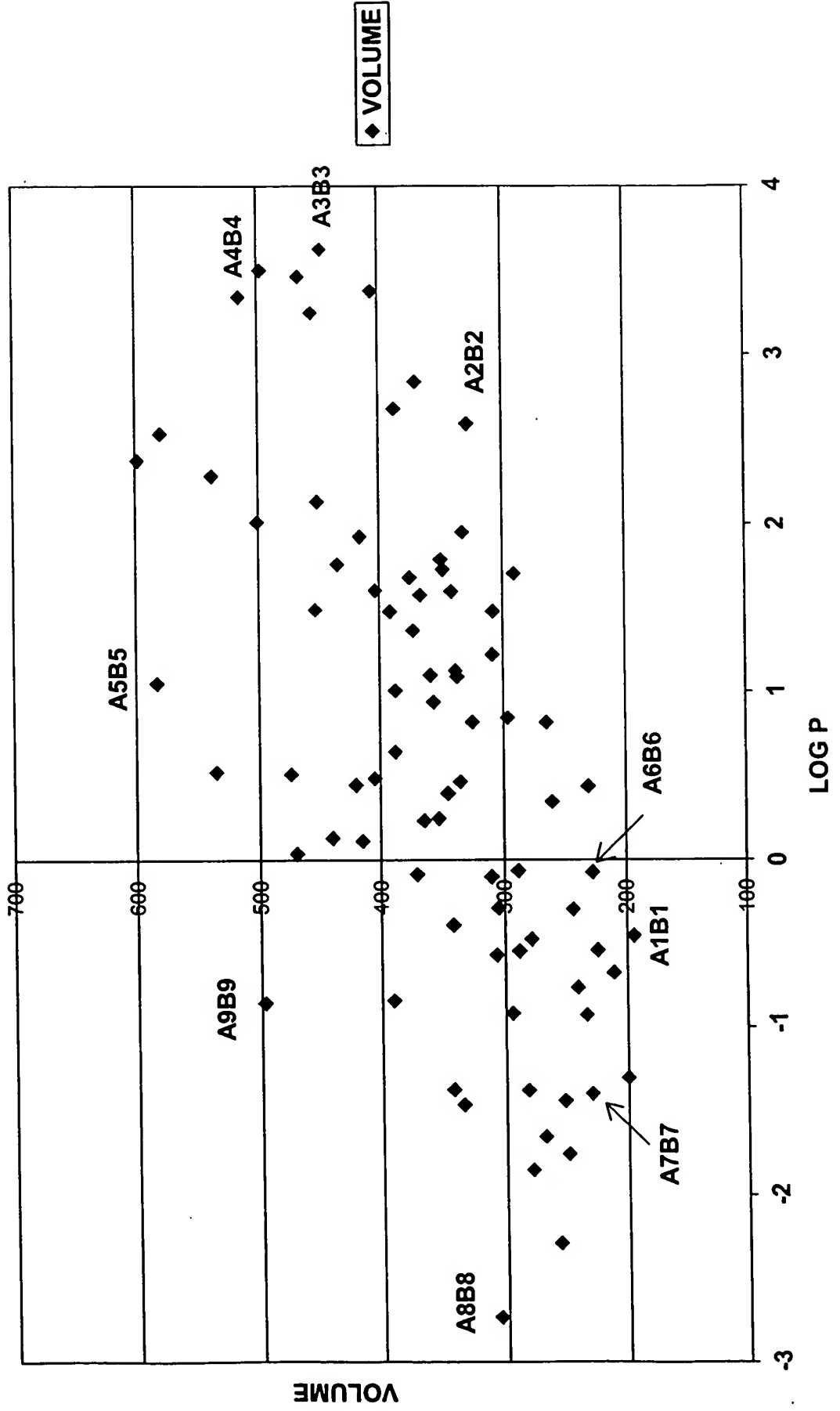


FIG. 3



BINDING SPACE

FIG. 4



VOLUME

FIG. 5A

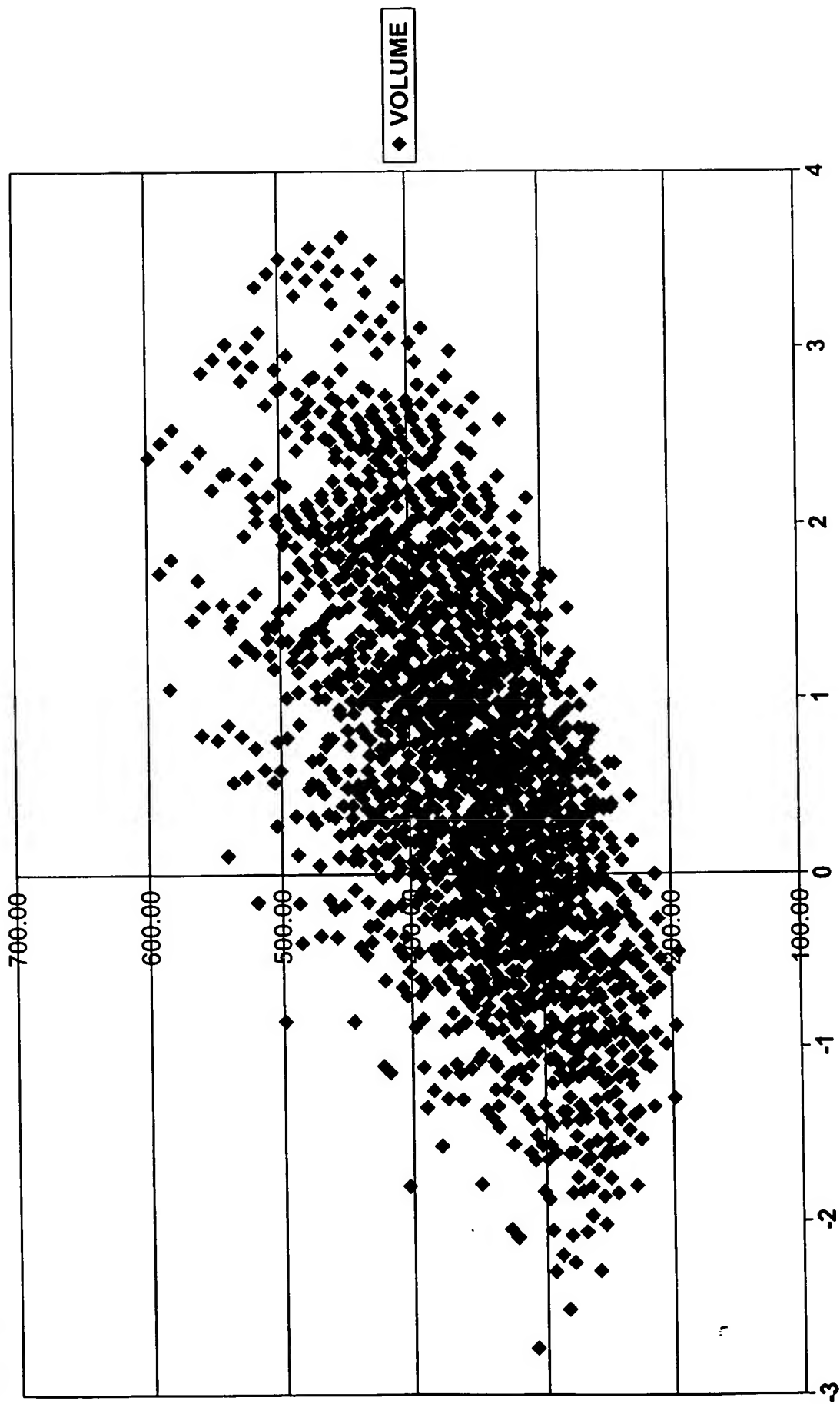


FIG. 5B

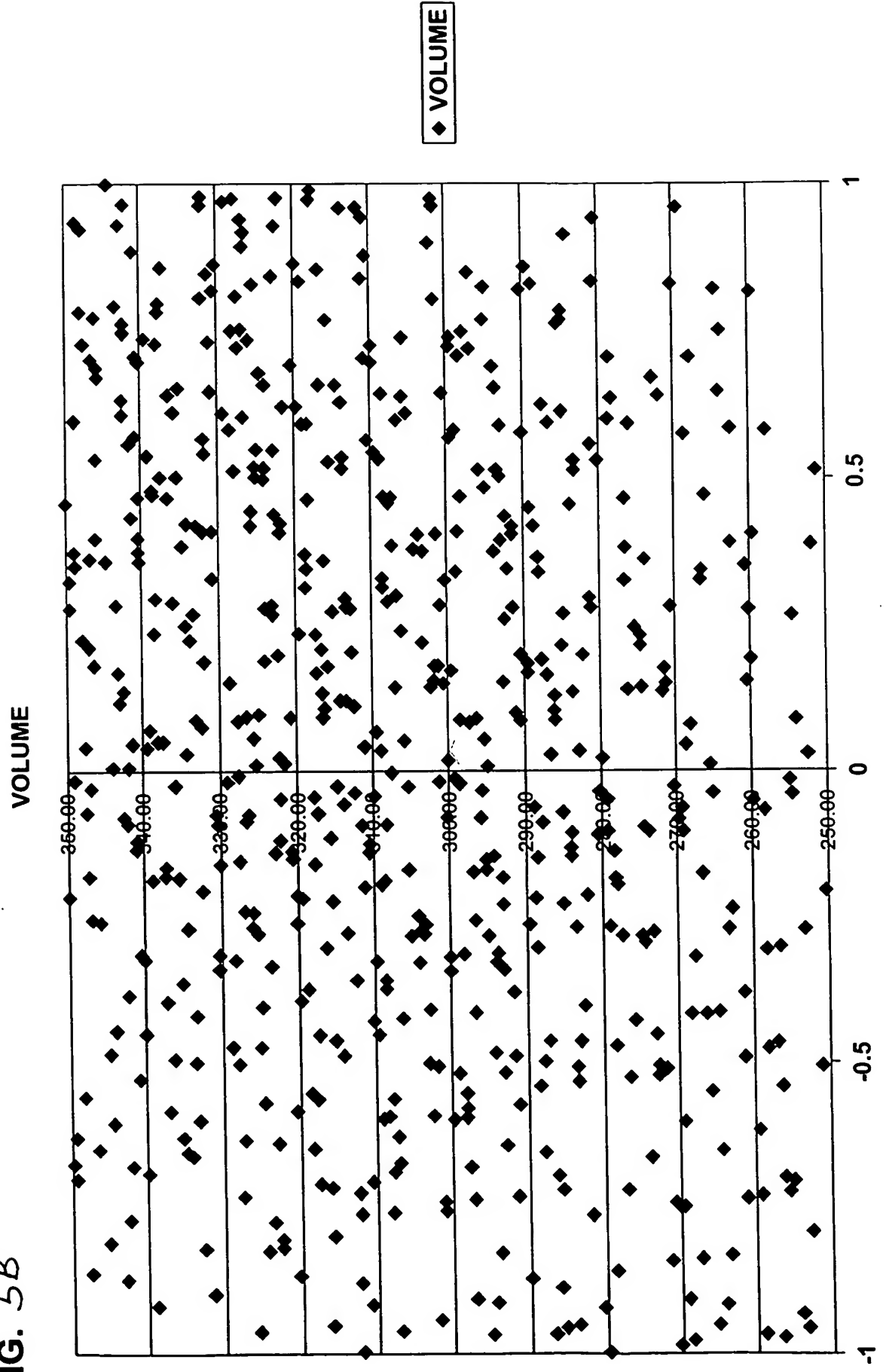
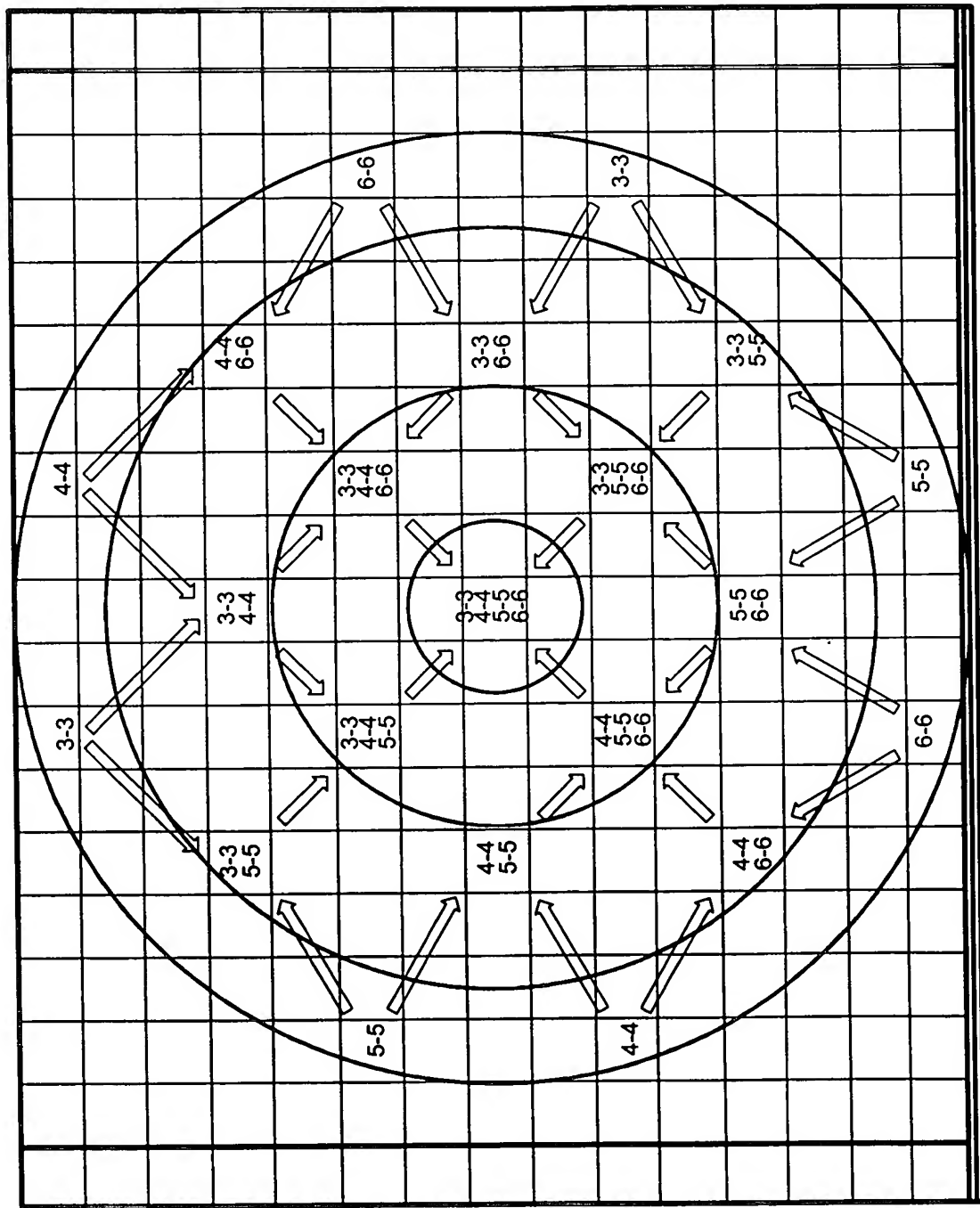


FIG. 6



TUB E

TUBE - TyrA4B4

TUBE - NH2

TUB E

NH

OC

4-4

H

NE

HO

OC

H

3

TUBE - TyrA2B2 plus TyrA6B6

NH2

NH

OC

2-2

NH2

NH

OC

6-6

NH2

S

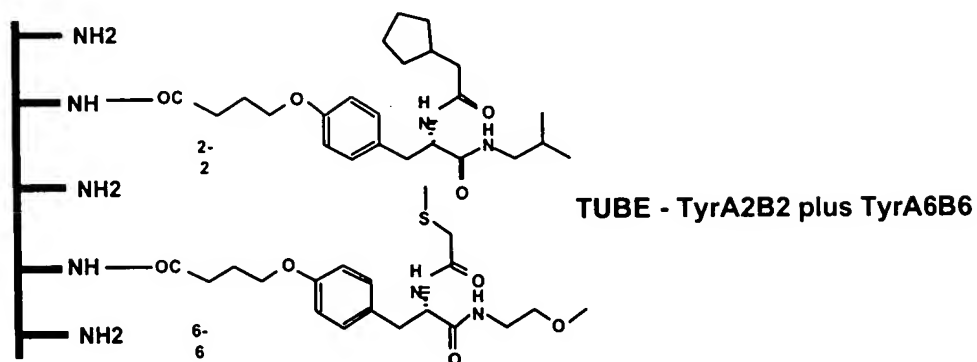
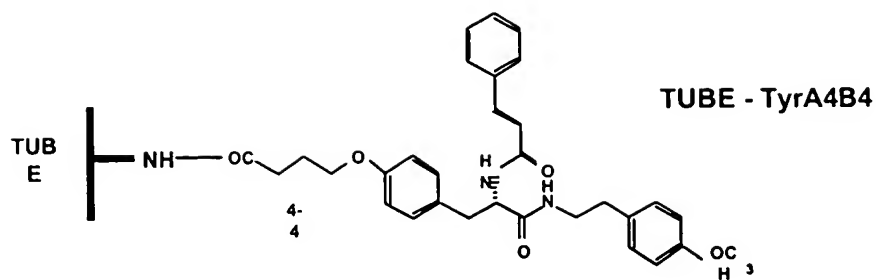
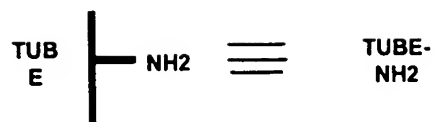


FIG. 7B

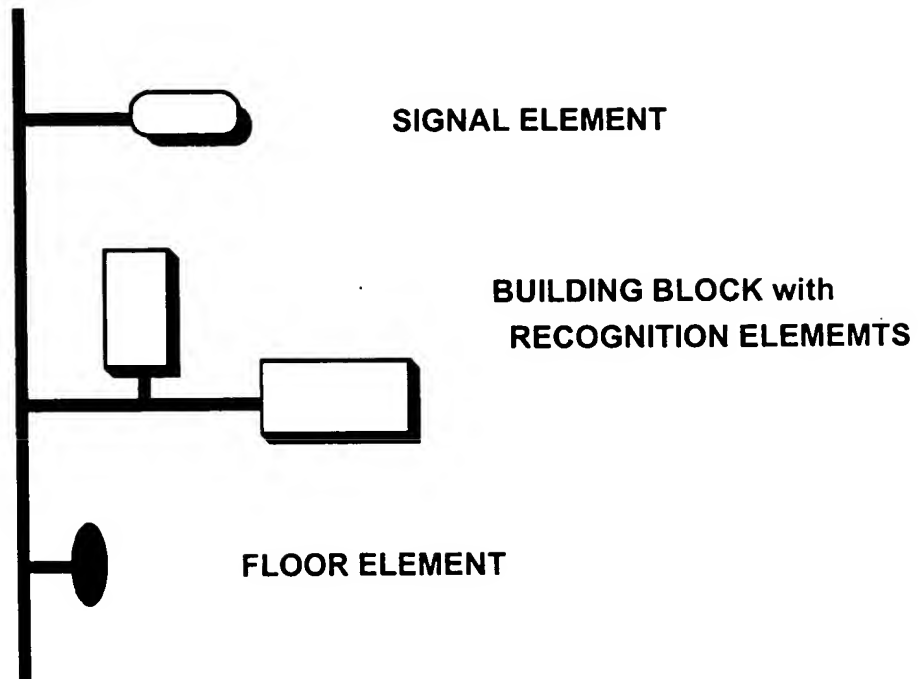


FIG. 8

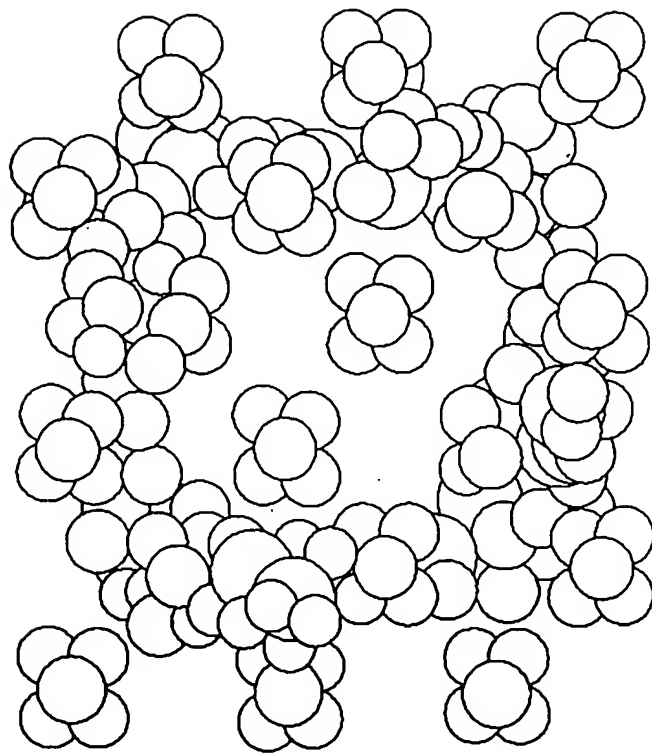
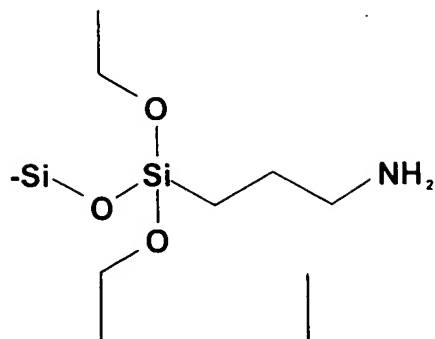


FIG. 9

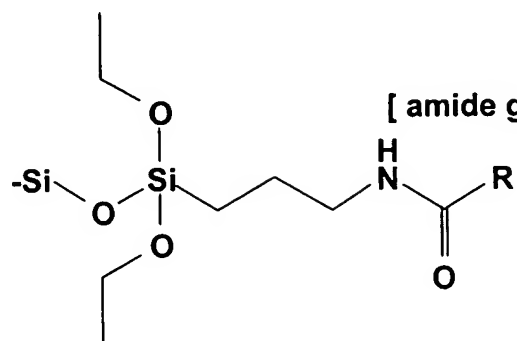
-Si-OH



[native glass]



[amine glass]



[amide glass]

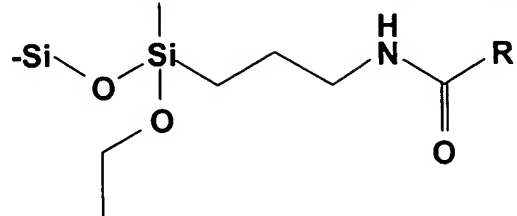


FIG. 10

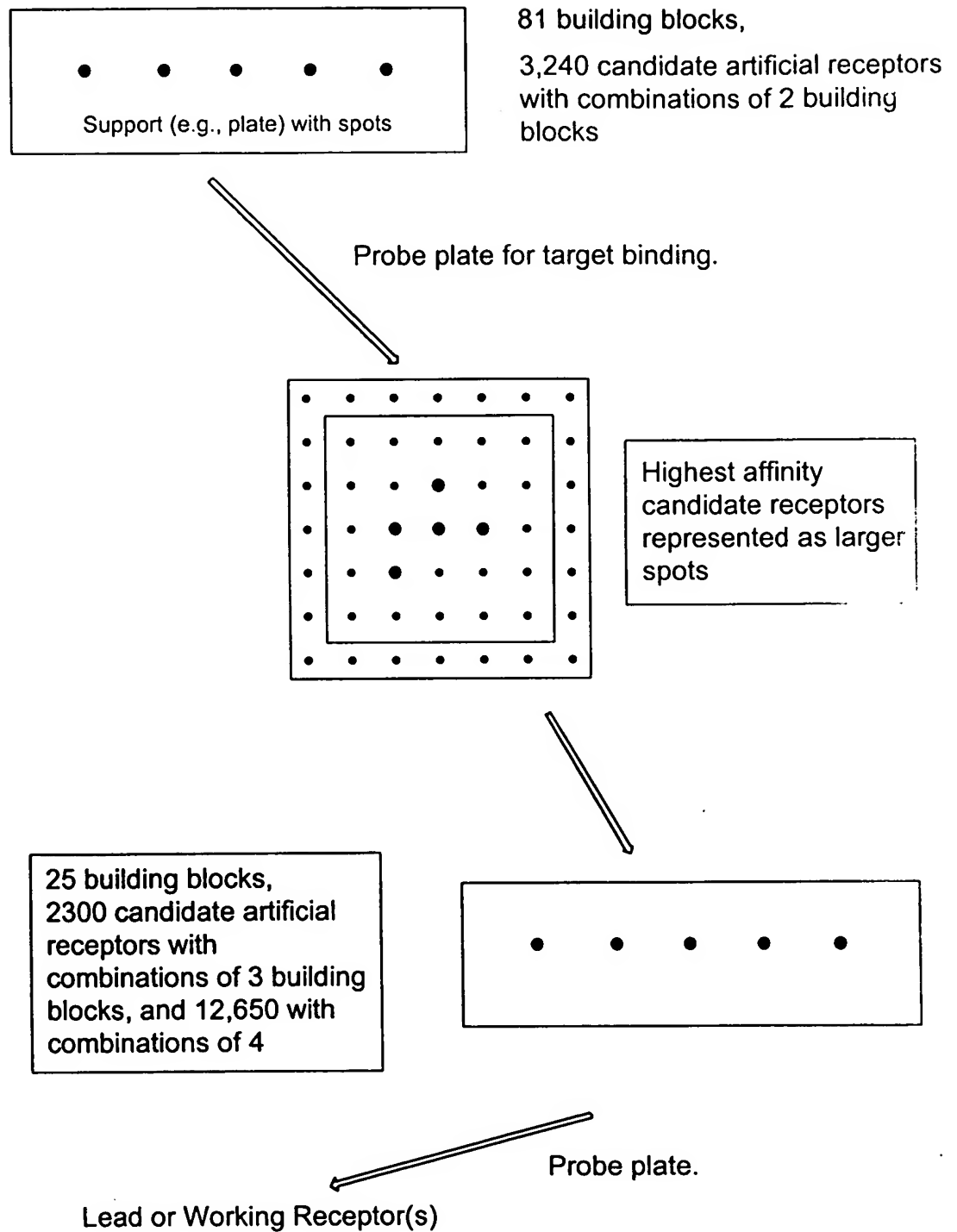


FIG. 11

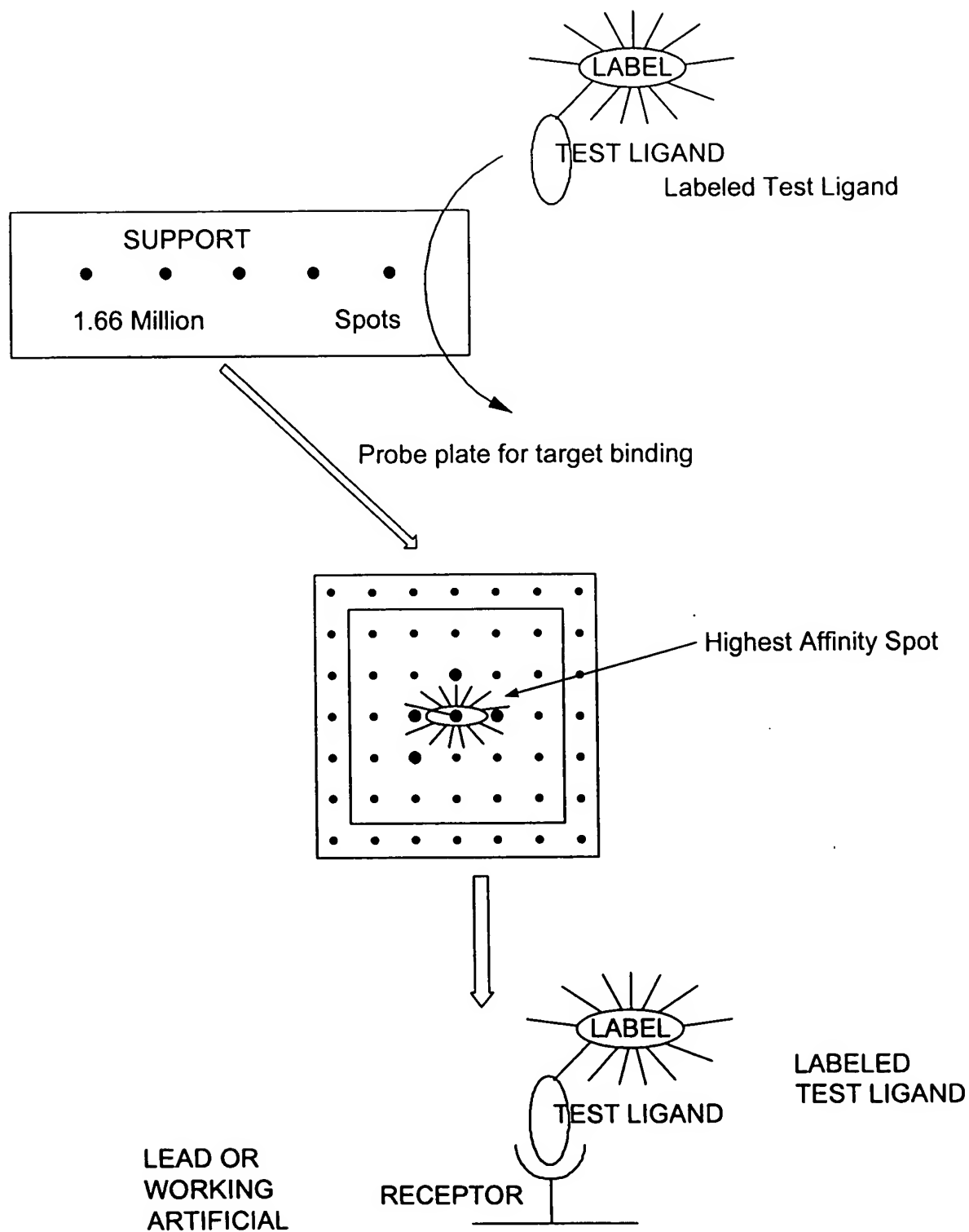


FIGURE 12 A GRAY SCALE IMAGE
OF A 2 ug/ml r-PHYCOERYTHRIN
CARA MICROARRAY.

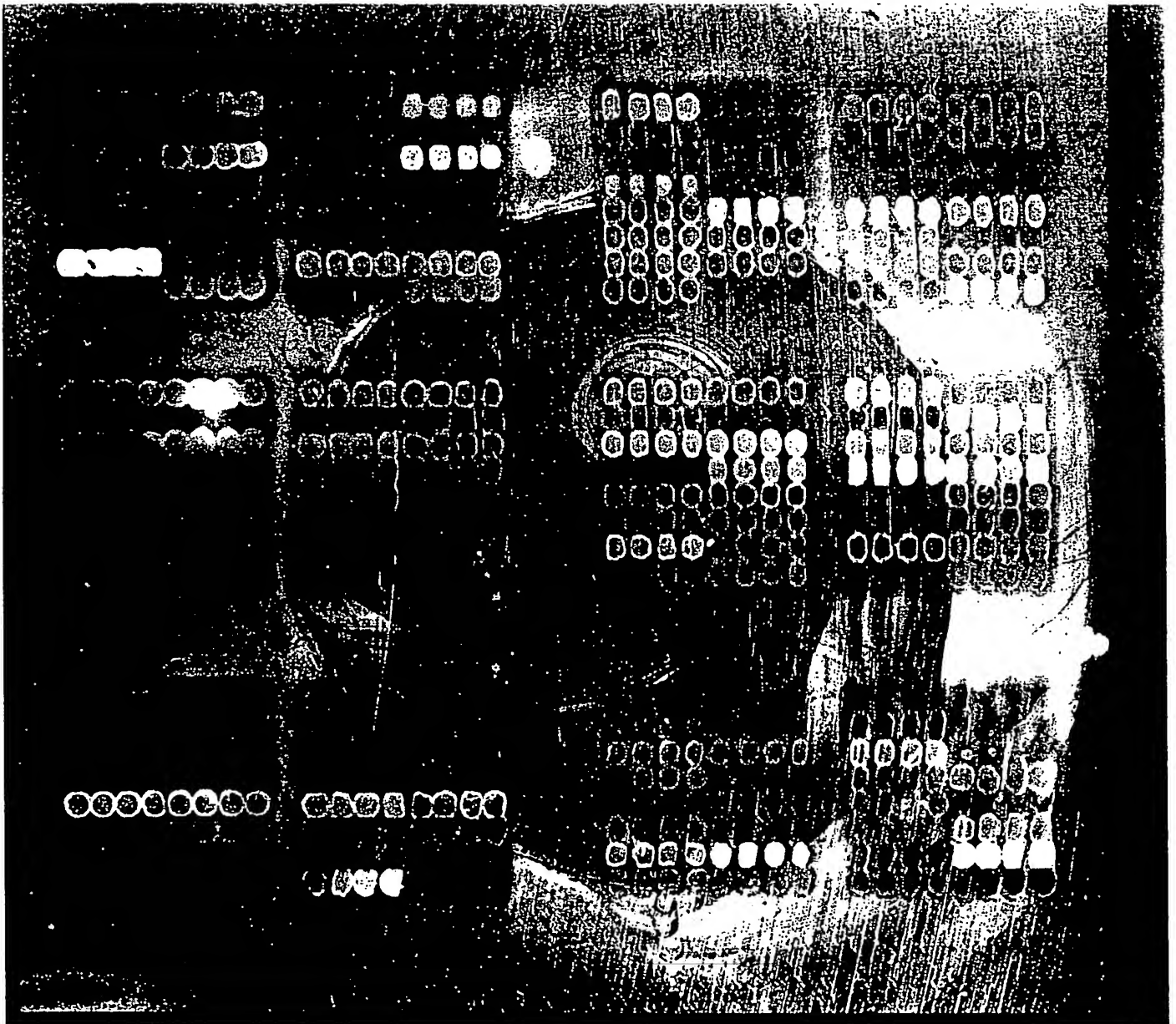


Fig. 13,

2D

plot R-PHYCOERYTHRIN

PHYCO

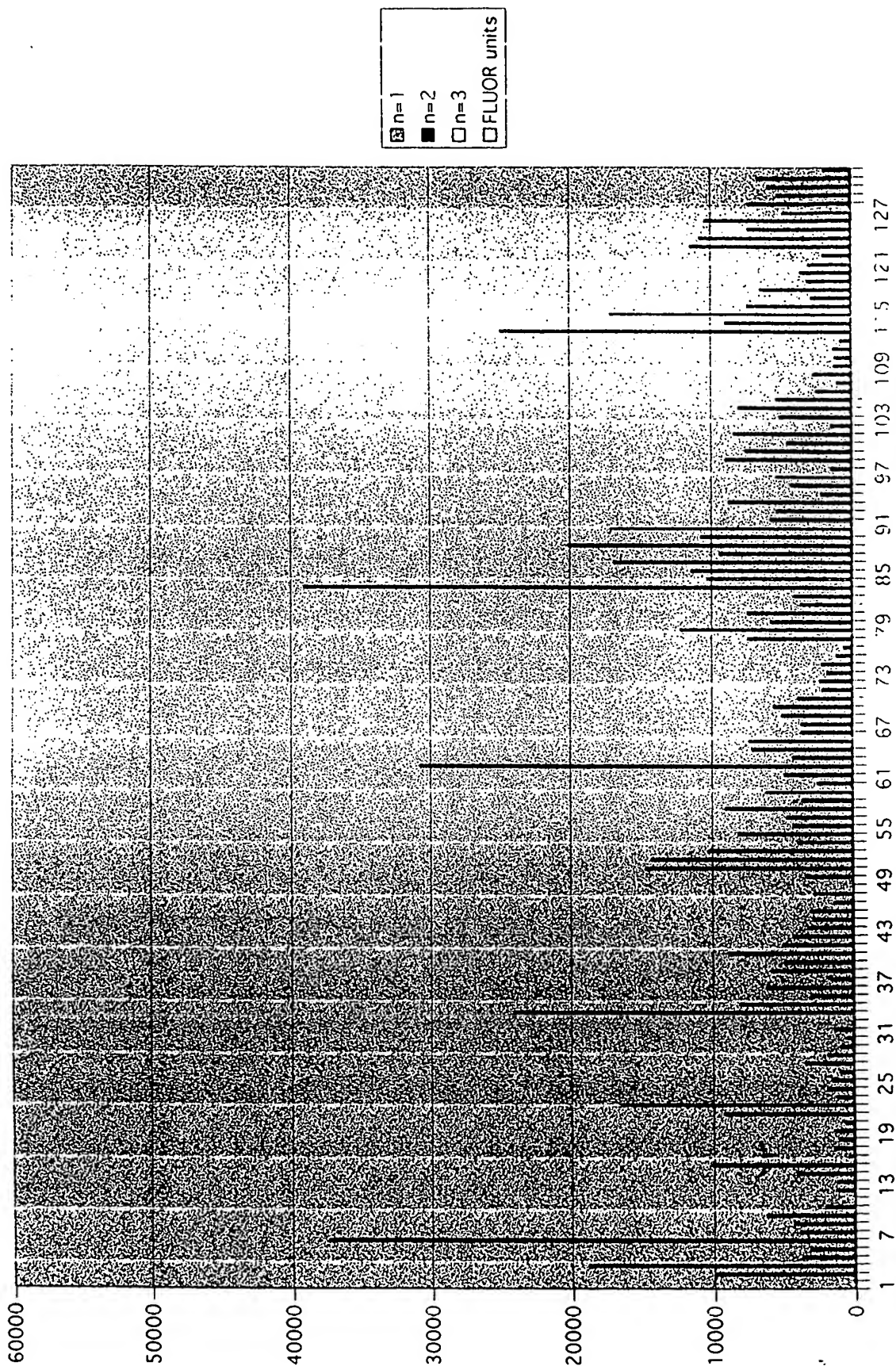


FIGURE 14

R-PHYCOERYTHRIN

3D PLOT

N9 : PHYCO : n=1, n=2, n=3

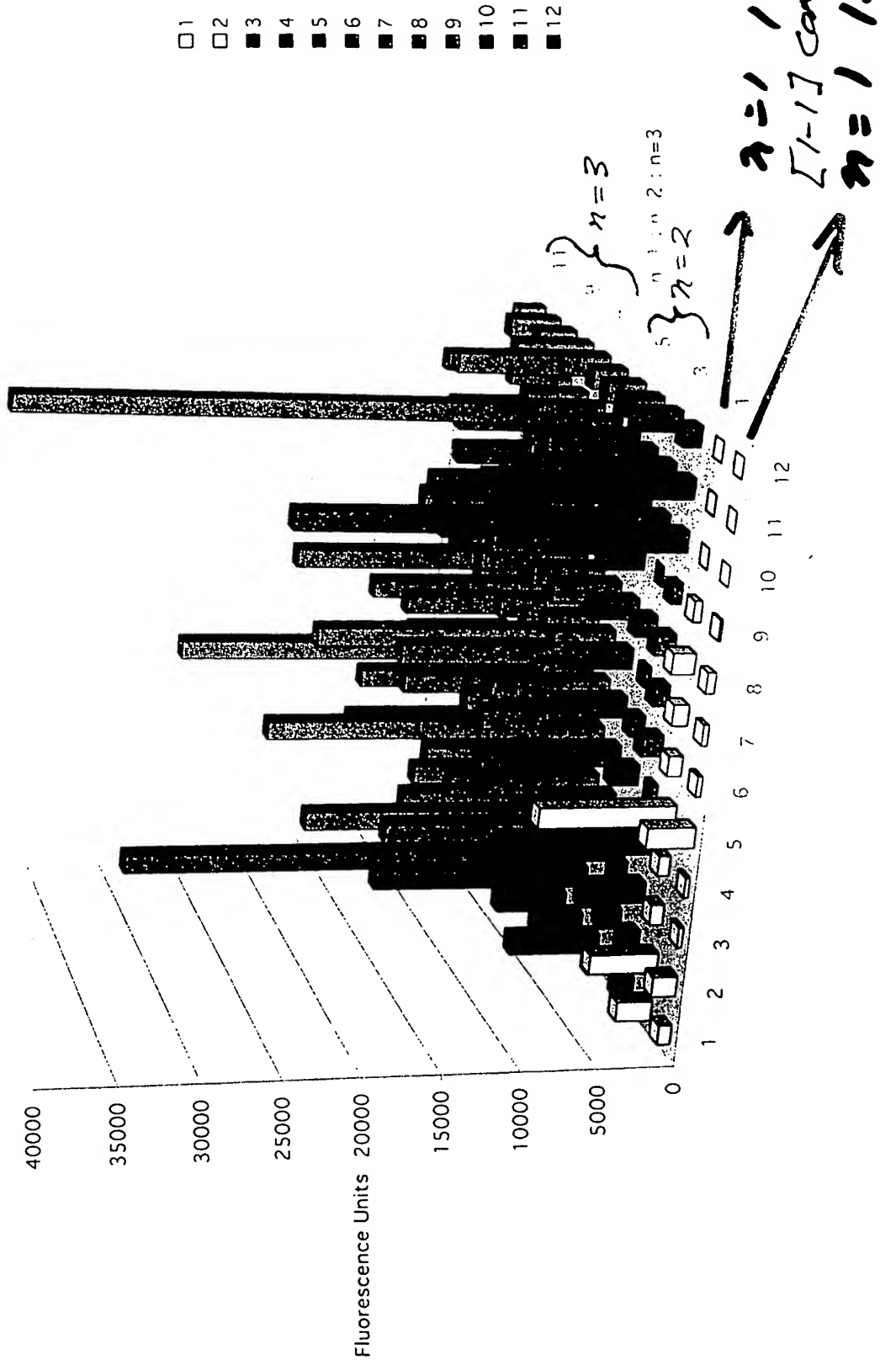
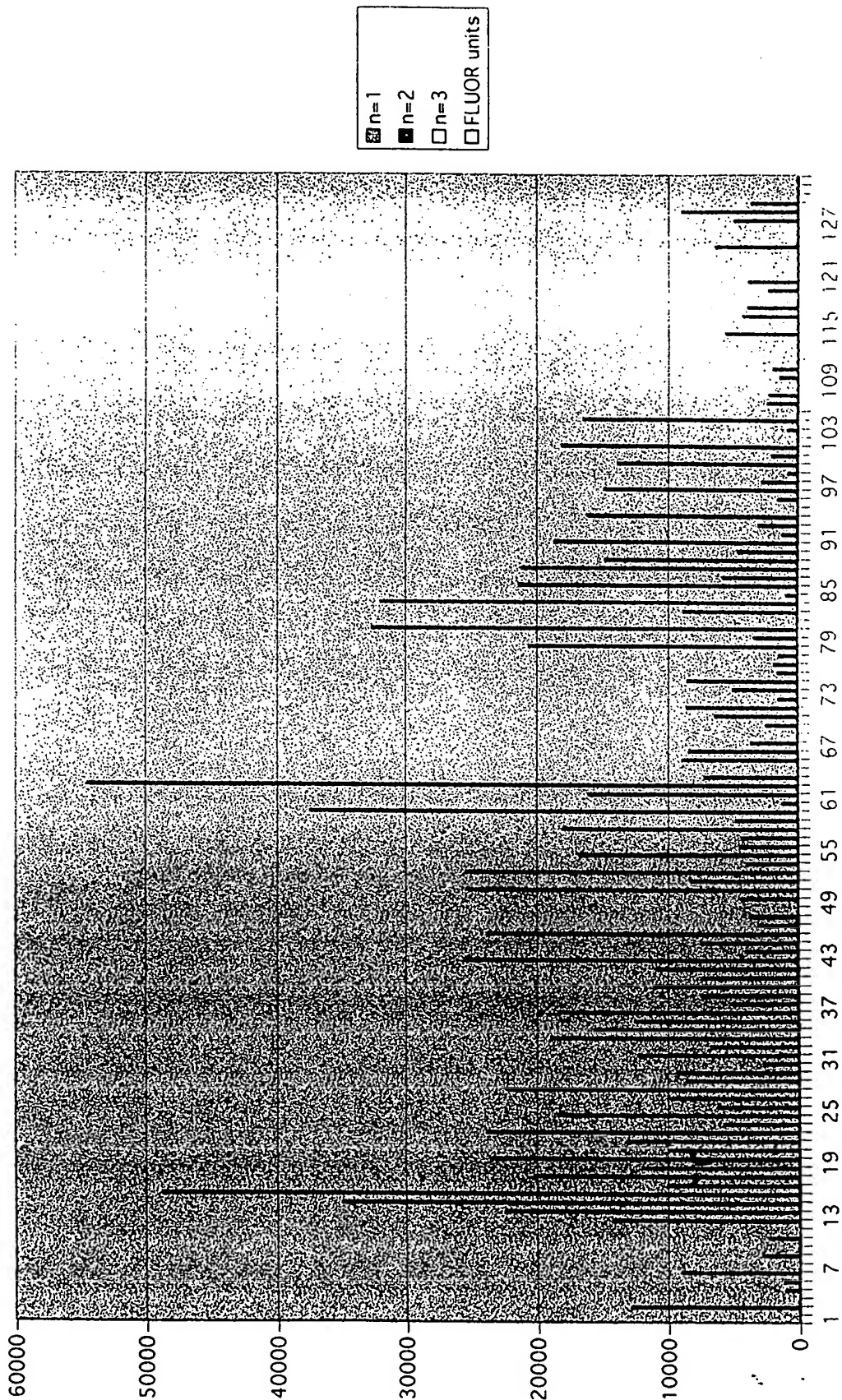


FIGURE 15

2D PLOT

OVAL BURIN

OVAL1



3D

0209234 MIN

N=9 n=1, n=2, n=3 COMBINATIONS OVAL1

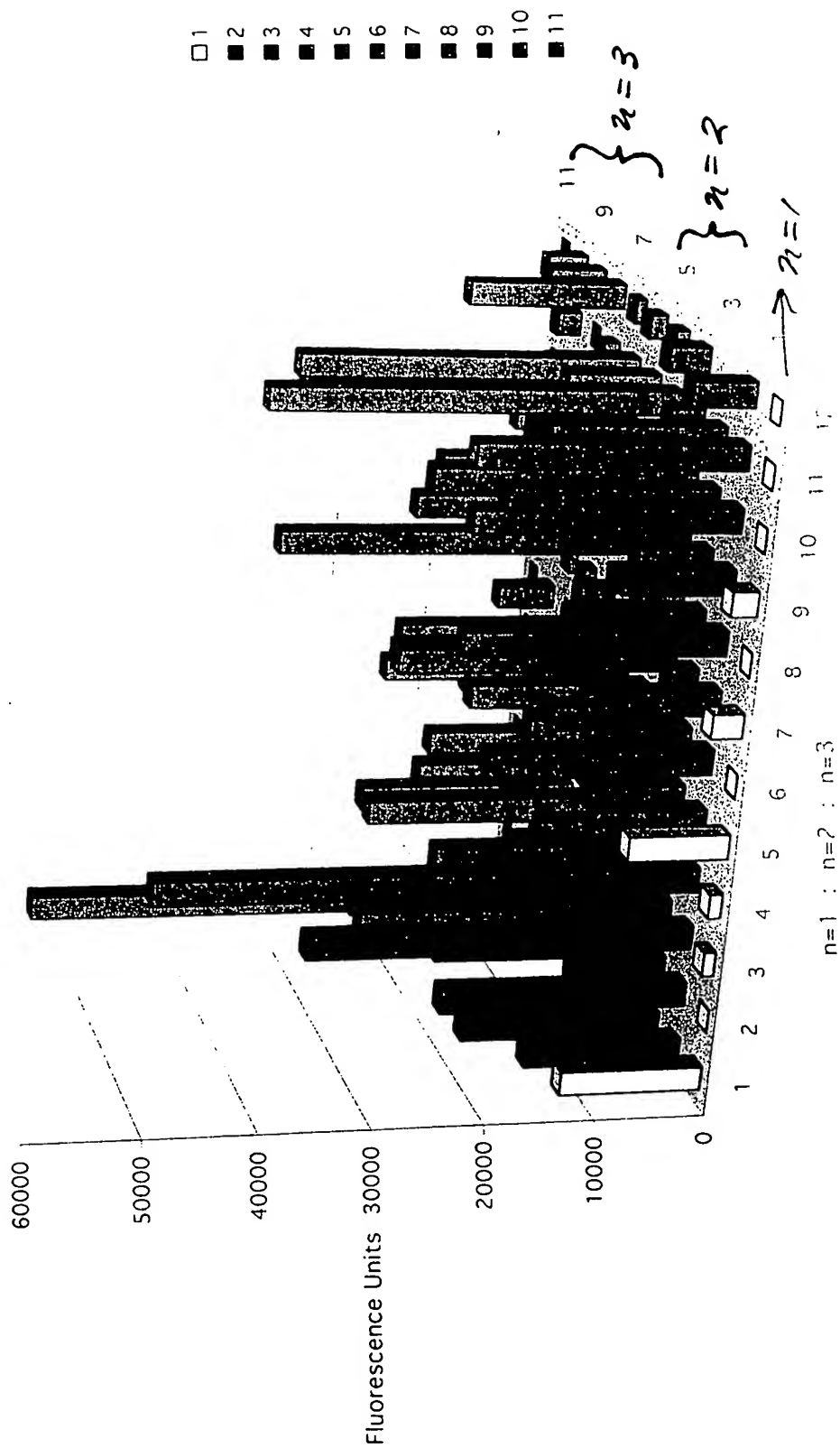


FIGURE 17 BOVINE SERUM ALBUMIN
 2D PLOT RHO₂ - BSA

RHO₂ - BSA

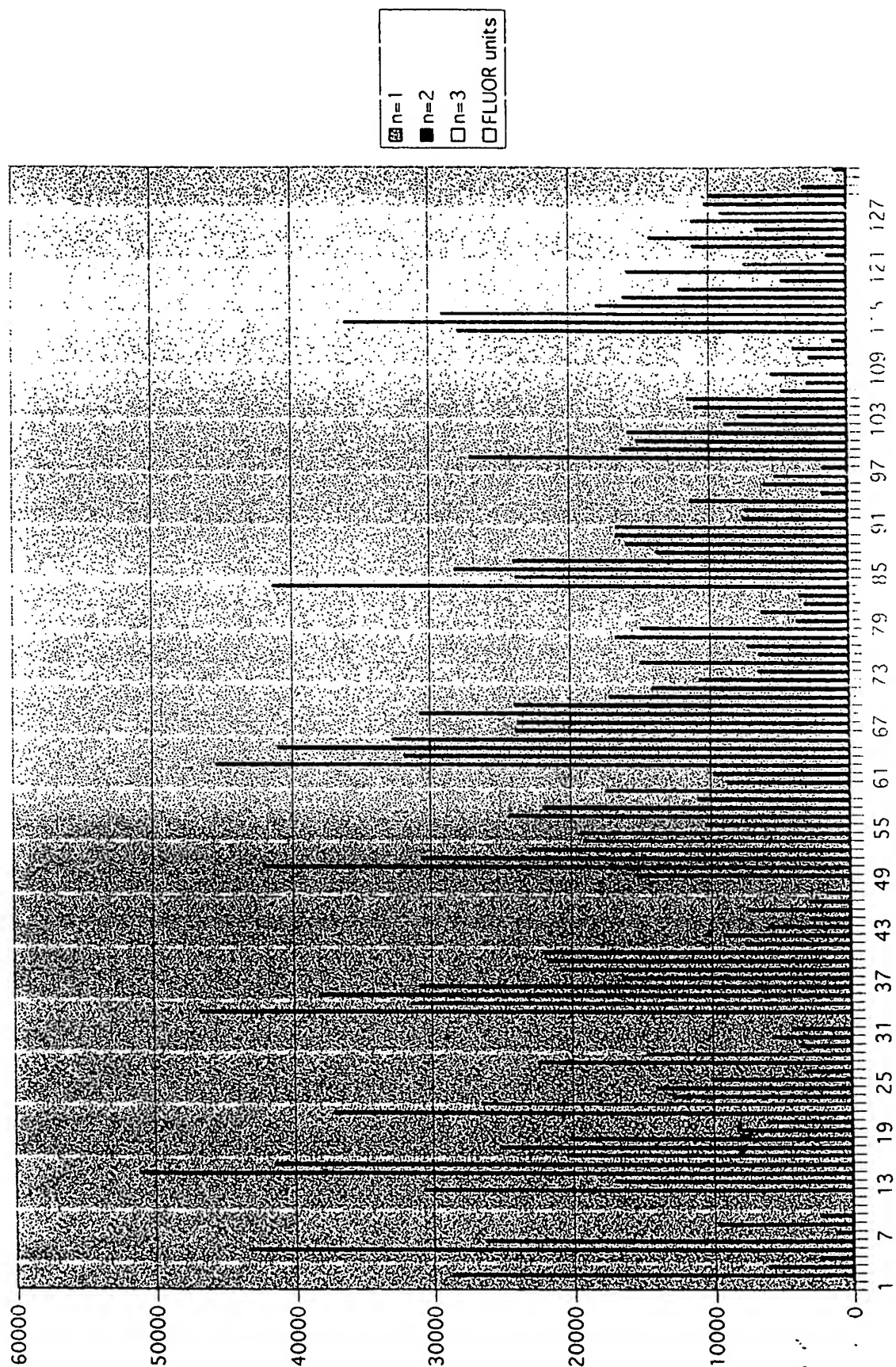


FIGURE 10

BSA

3D : Plot

N=9 n=1, n=2, n=3 COMBINATIONS RHO1-BSA/SA

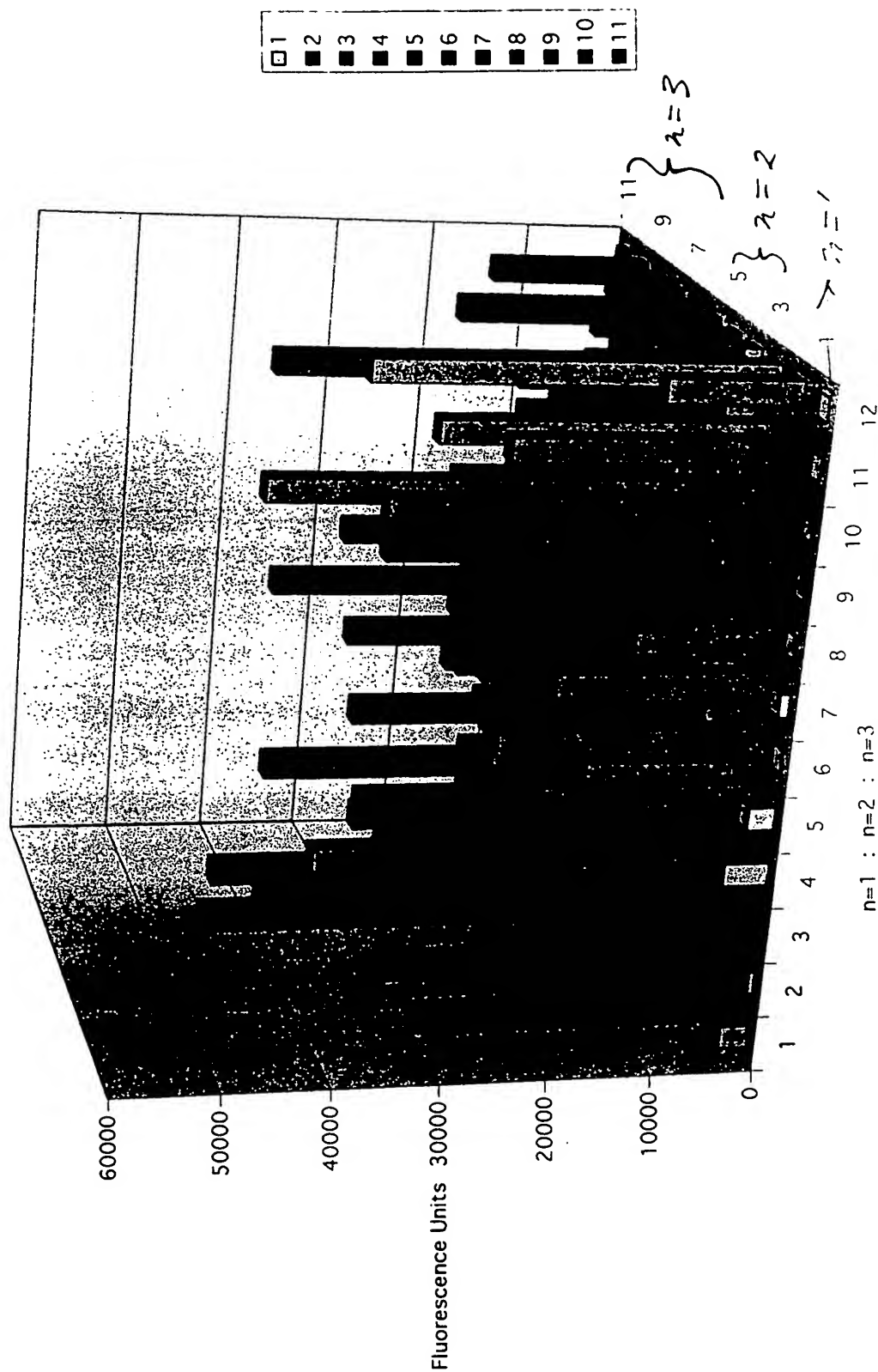


FIGURE 19.
 2D CORRELATION PLOT HARP-NH-AC "1.0x"

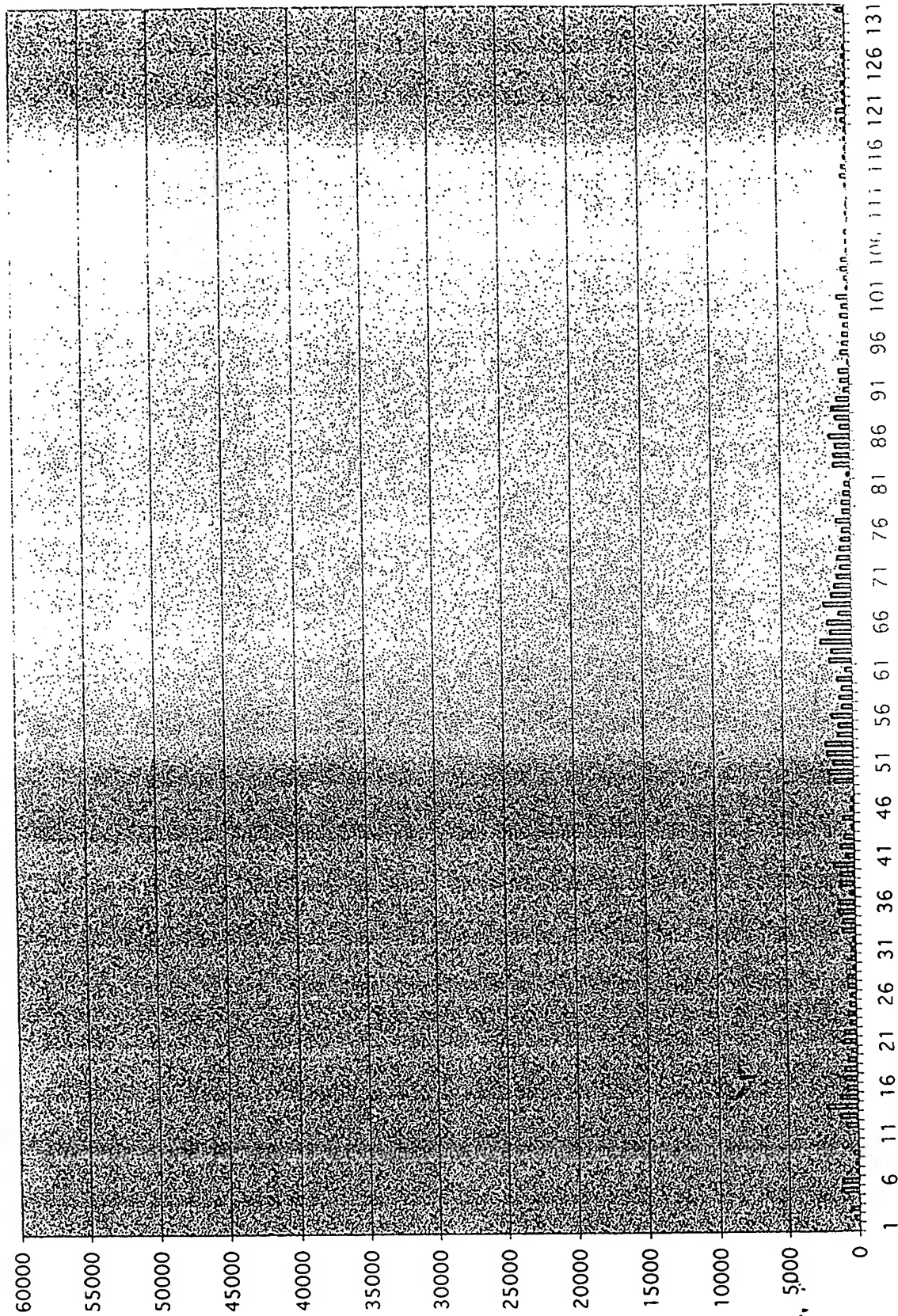


FIGURE 20

3D

PLOT

HRP-NH-Ac

N=9 n=1, n=2, n=3 COMBINATIONS HRP-NH-Ac

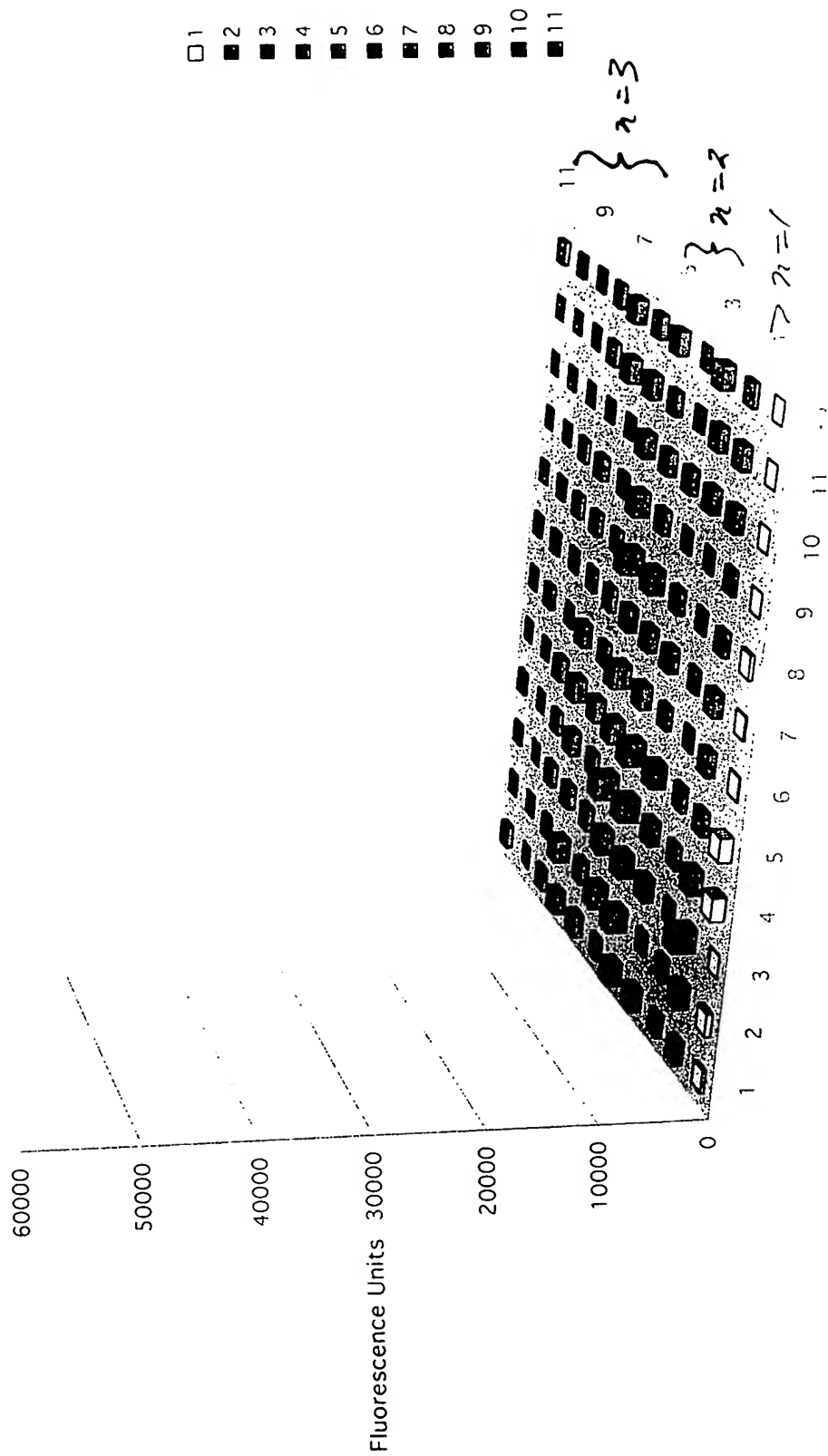
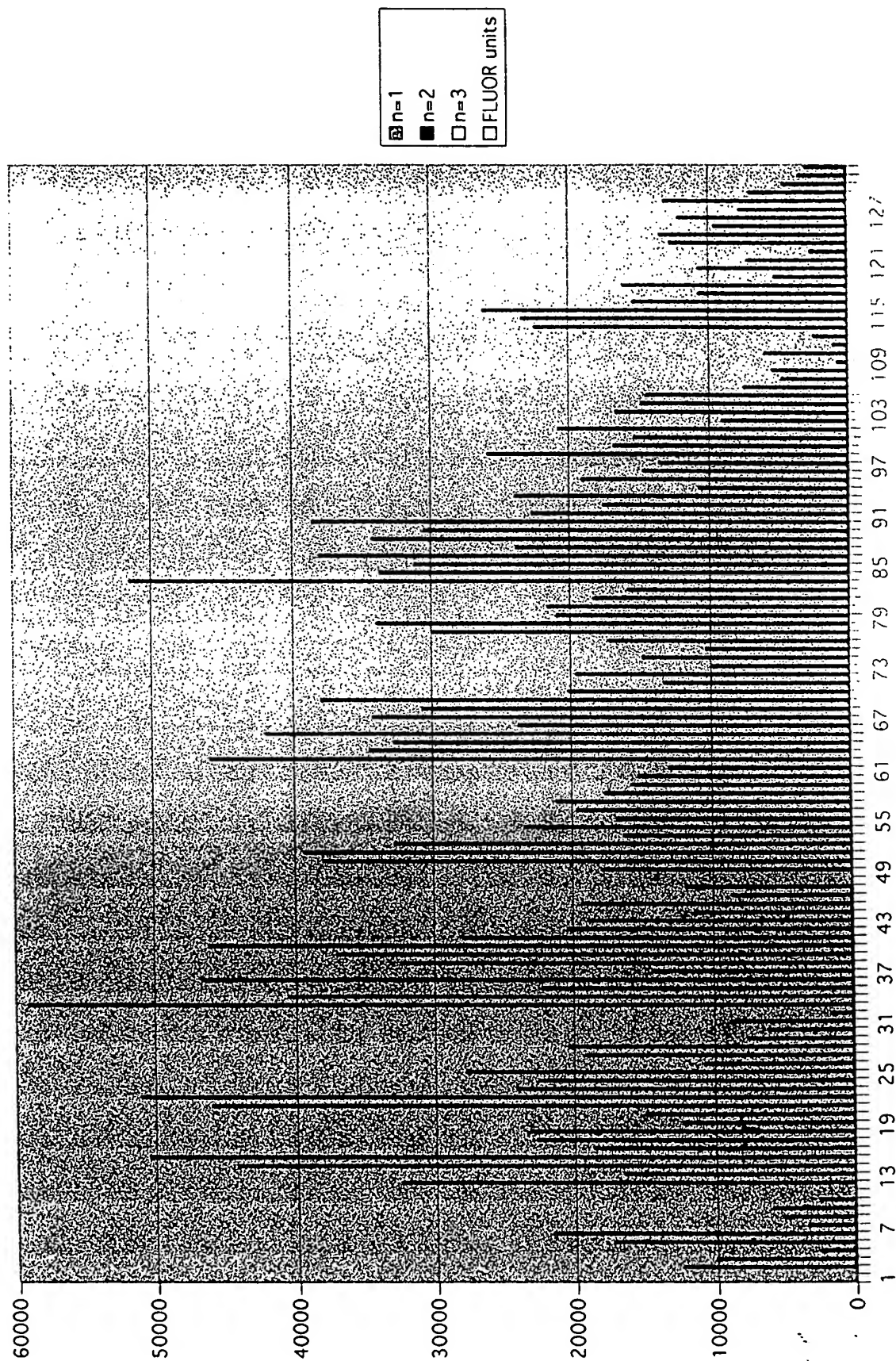


FIGURE 21
2D
Plot
HRP-PCDD
HRP-TCDD

HRP-TCDD



HRP-TcDD

3D Plot

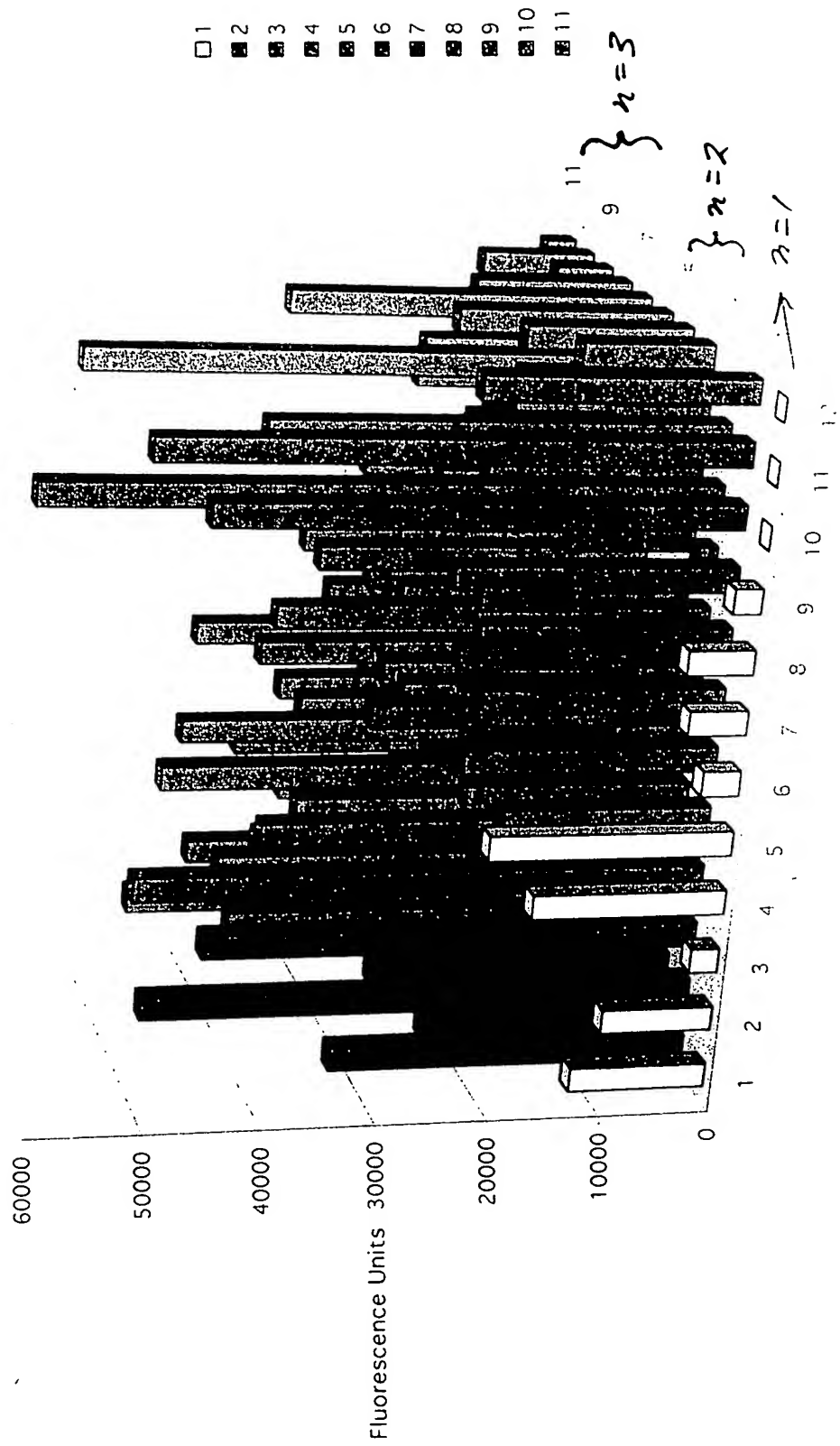


FIGURE 22. BLOCK 8 DATA PLOT.

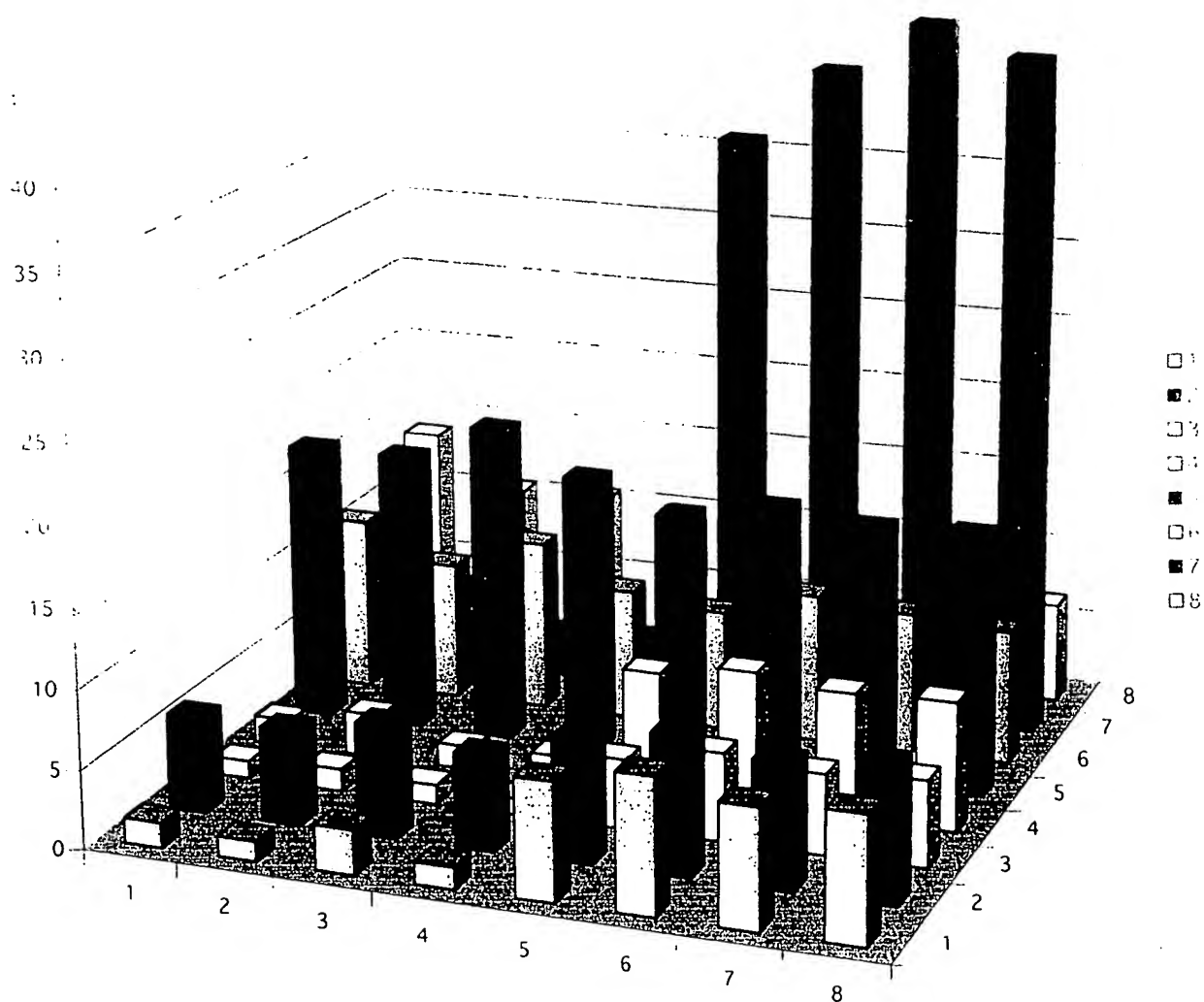
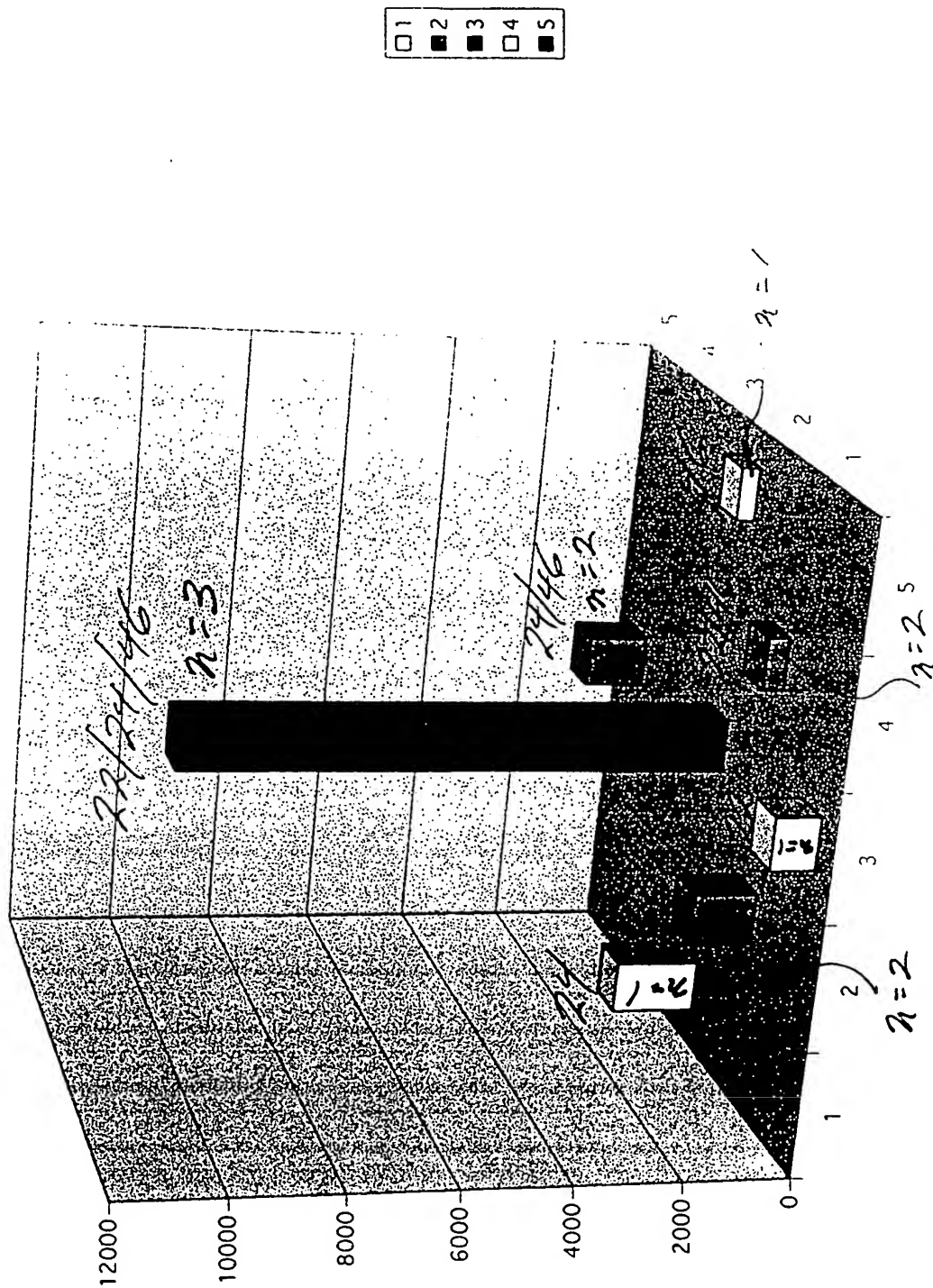


FIGURE 24. R-Physics DATA

n=3
22/24/46

COMPARISON OF $n=1$, $n=2$, $n=3$



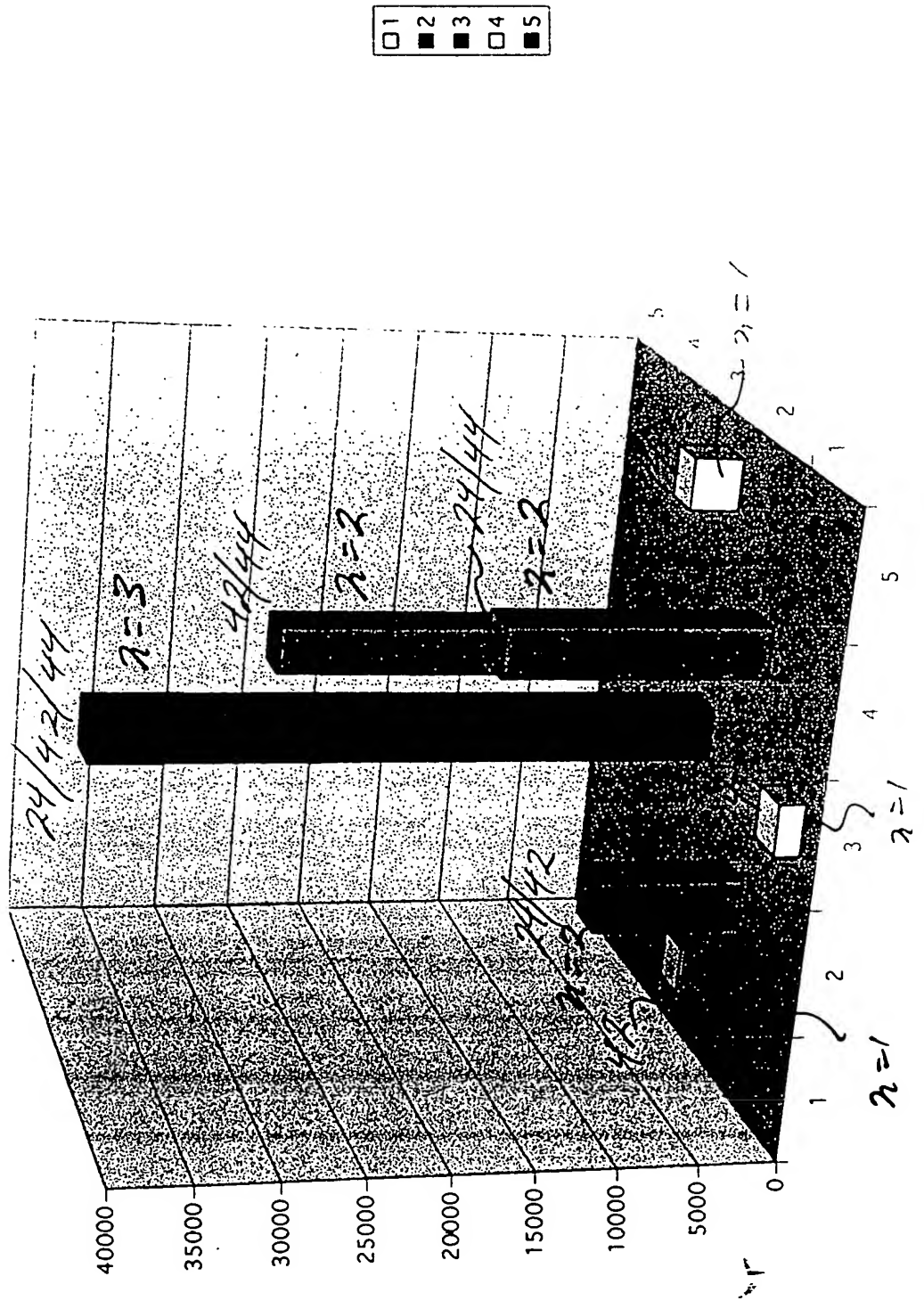
NOTE: "22" REFERS TO [2-2], etc.

FIGURE 25. R-PHYCO DATA

20/12/44

COMPARISON OF $n=1$, $n=2$, $n=3$

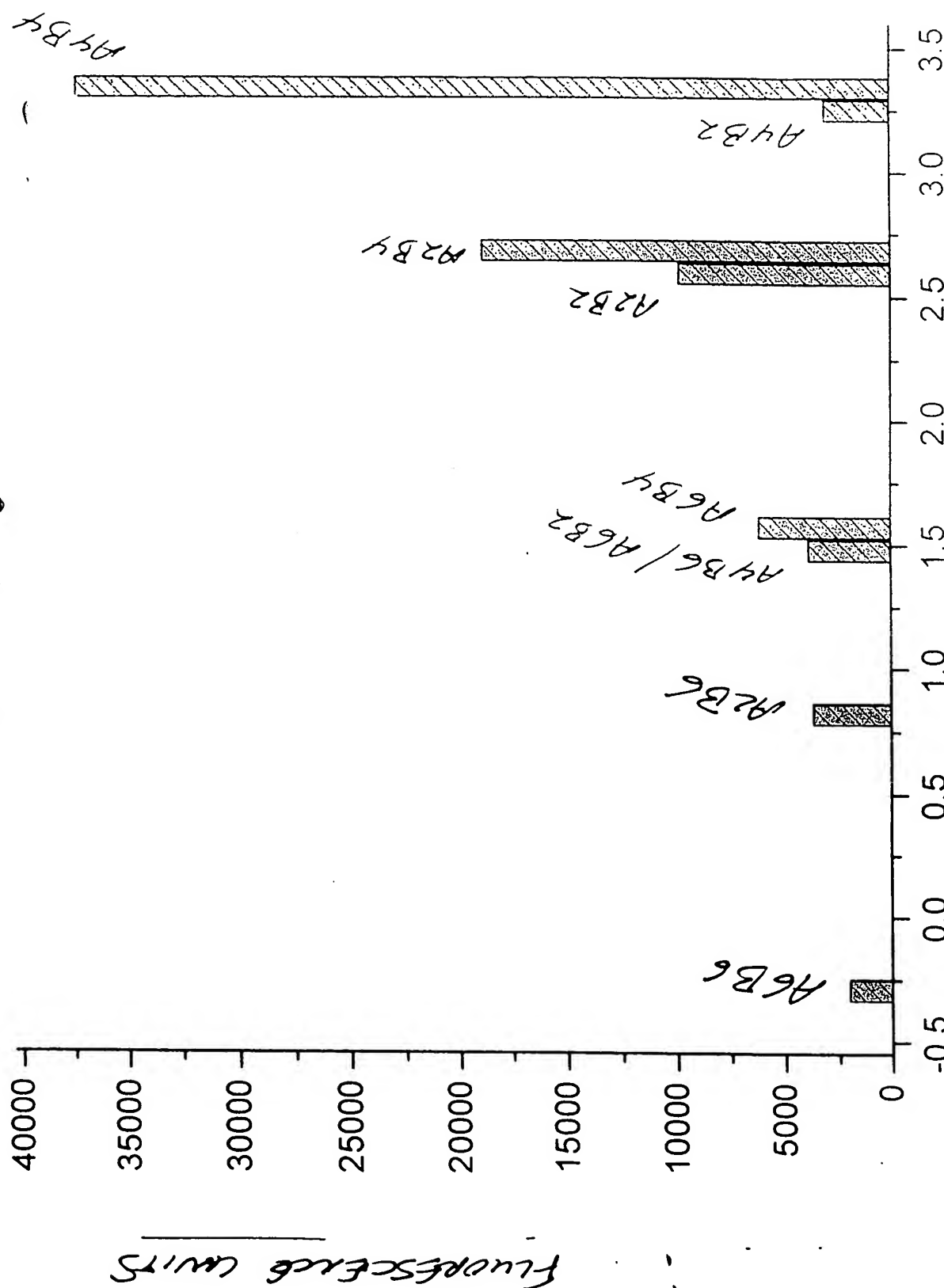
2



NOTE: "24" REFERS TO [2-4], etc.

FIGURE 26. LOG P VERSUS BINDING FOR $n=1$ SYSTEMS.
 $N=9$; $n=1$

B



LOG P

FIGURE 27. LOG P VEASAS BRIDING

For $n=2$ SYSEMS.

R-PHYCO

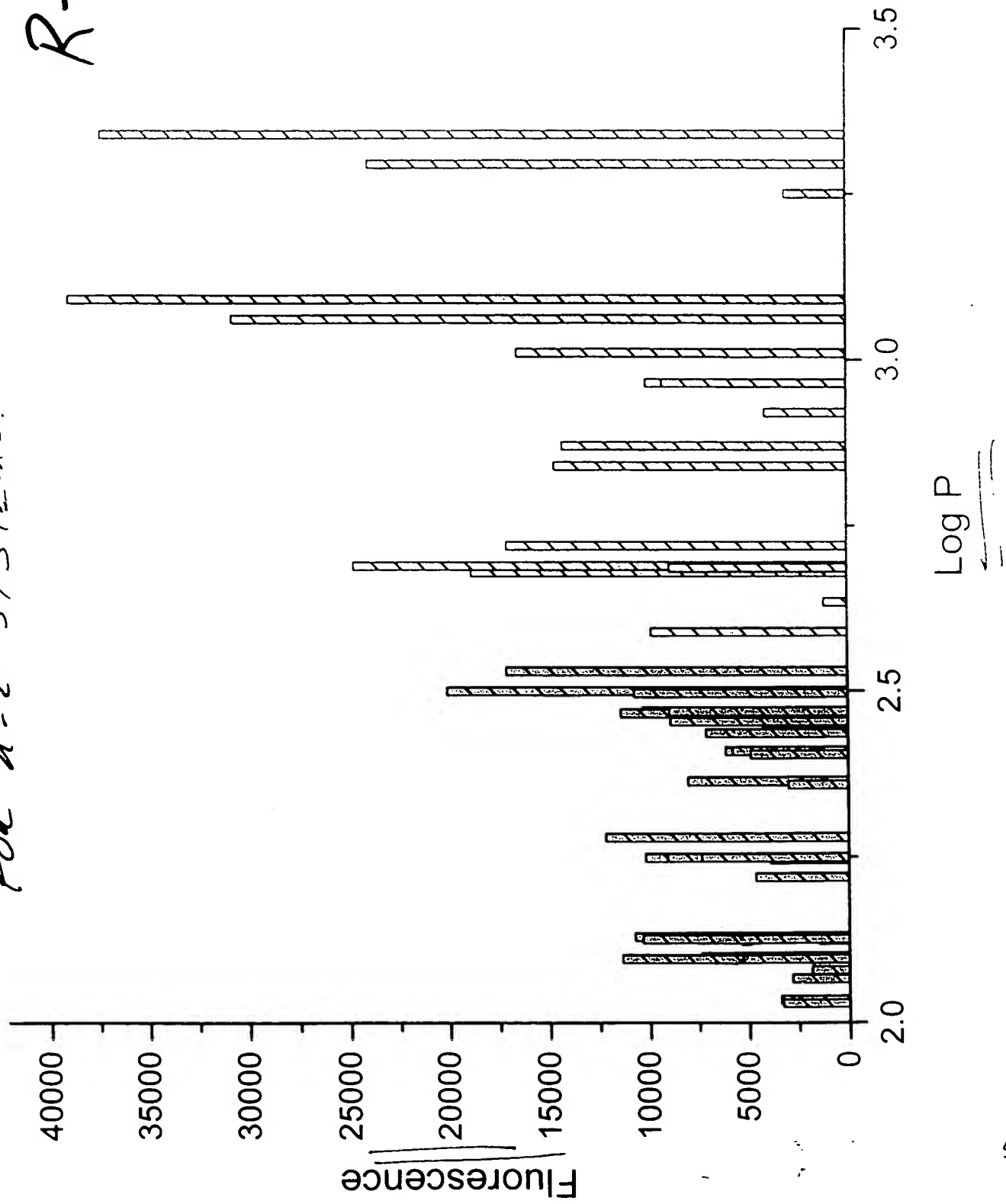


FIGURE 28. COMPARISON OF R-PHYCOCYANIN
AND BSA BINDING.

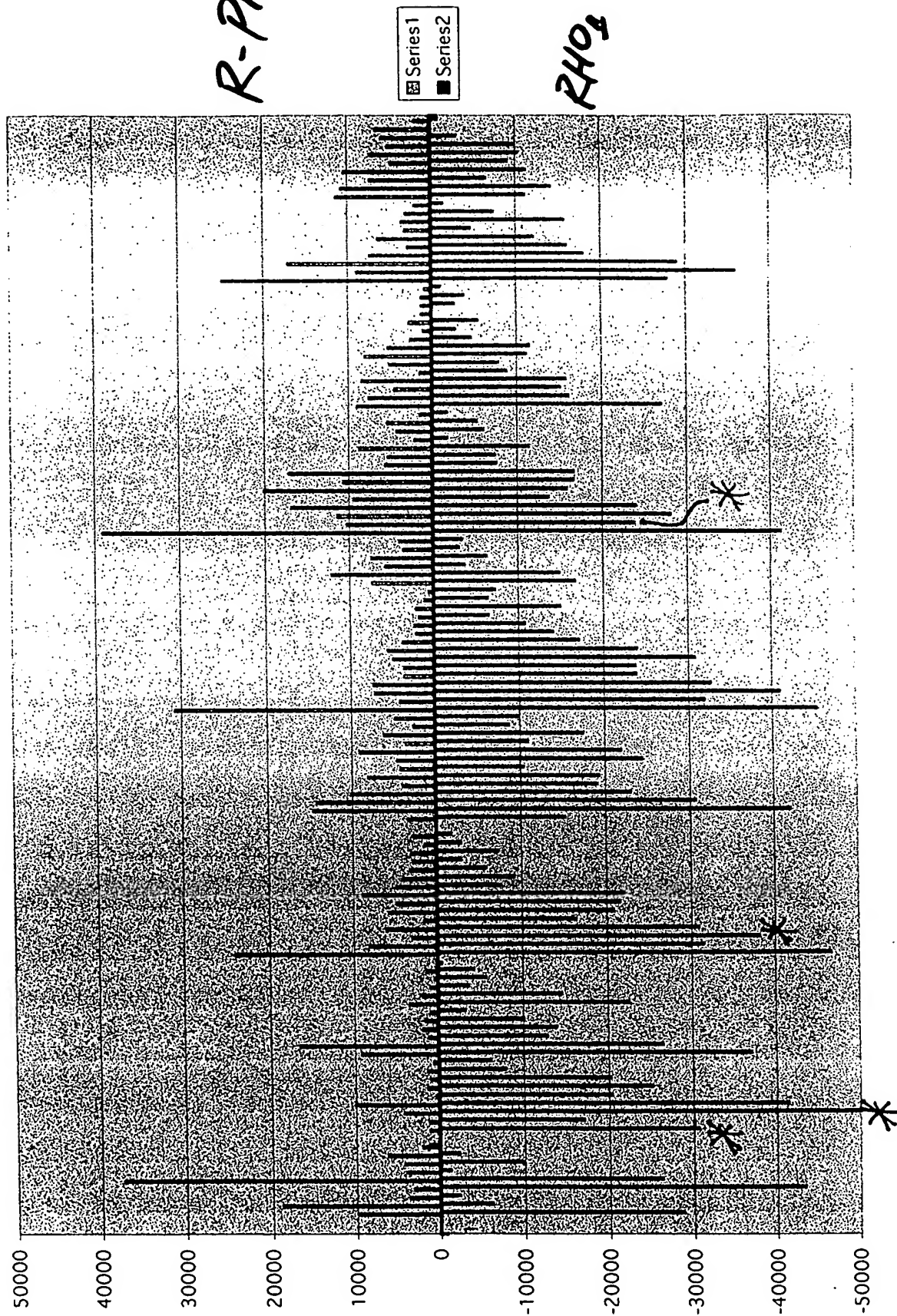
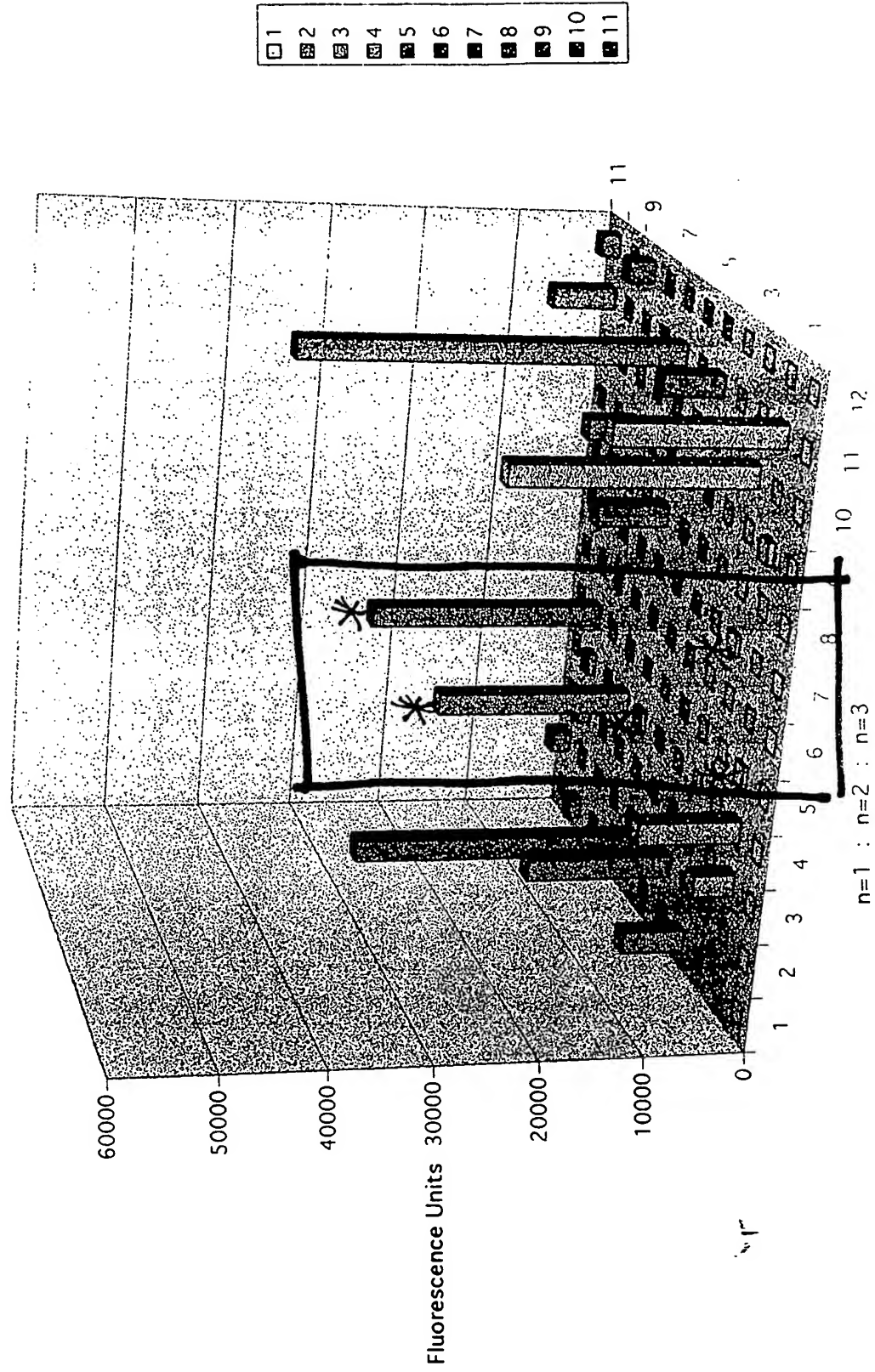


FIGURE 29. SELECTED BINDING: PHENOPERTHIN

N=9 n=1, n=2, n=3 COMBINATIONS r-PHYCO



BSA

FIGURE 30. SELECTED BINDING

N=9 n=1, n=2, n=3 COMBINATIONS BSA/bioterrorism

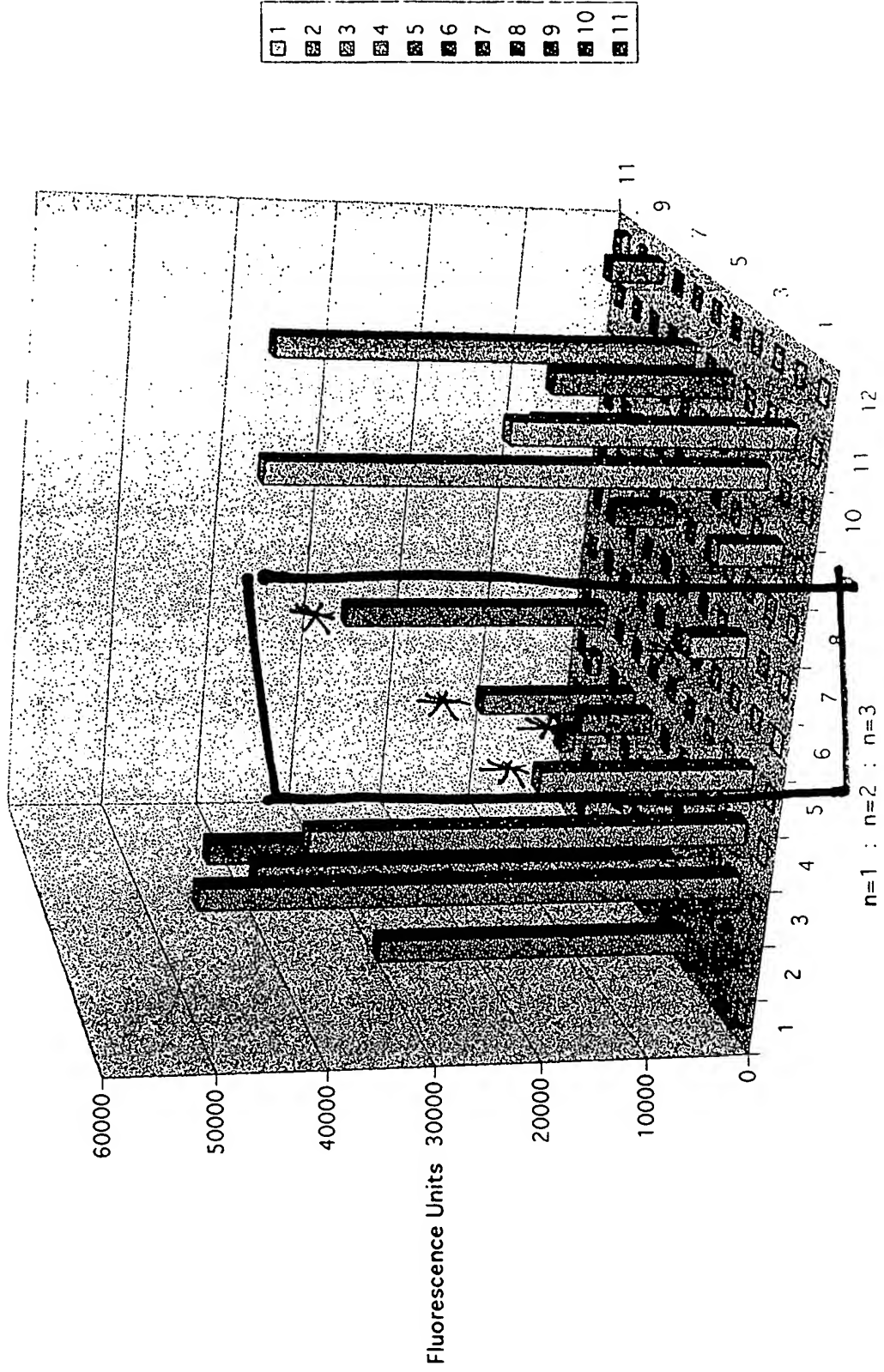
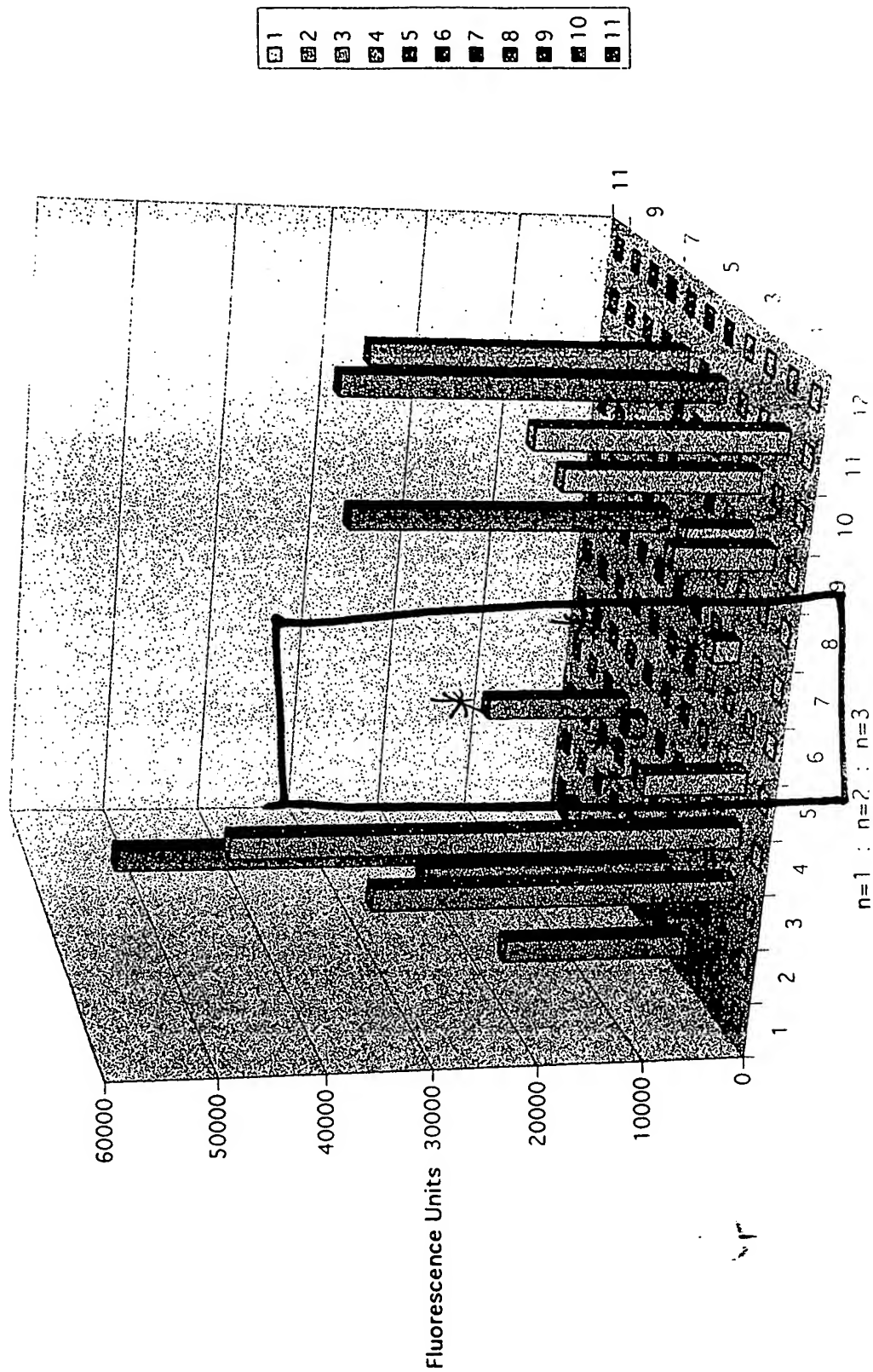


FIGURE 31. SELECTED BINDING: OVA BURN

N=9 n=1, n=2, n=3 COMBINATIONS OVAL1/bioterrorism



GenePix Image - Wavelength 635

This is a high-contrast, black-and-white image of a heavily textured, irregularly shaped object. The object has a dark, grainy interior and a lighter, speckled border. The texture is very rough and uneven, with many small, dark spots and fibers visible. The overall appearance is that of a piece of old, worn fabric or paper, possibly a piece of evidence or a sample. The image is framed by a thick black border.

2004/03/29 14:36:12

FIGURE

33

$$\log = 42,000$$

This is a high-contrast, black and white image showing a heavily textured, grainy surface. The texture is composed of numerous small, dark, irregular spots and scratches, giving it a mottled appearance. The overall tone is dark, with some lighter areas where the texture is less dense. The image is framed by a thick black border, which is slightly irregular at the edges. There are no discernible figures, objects, or text within the image.

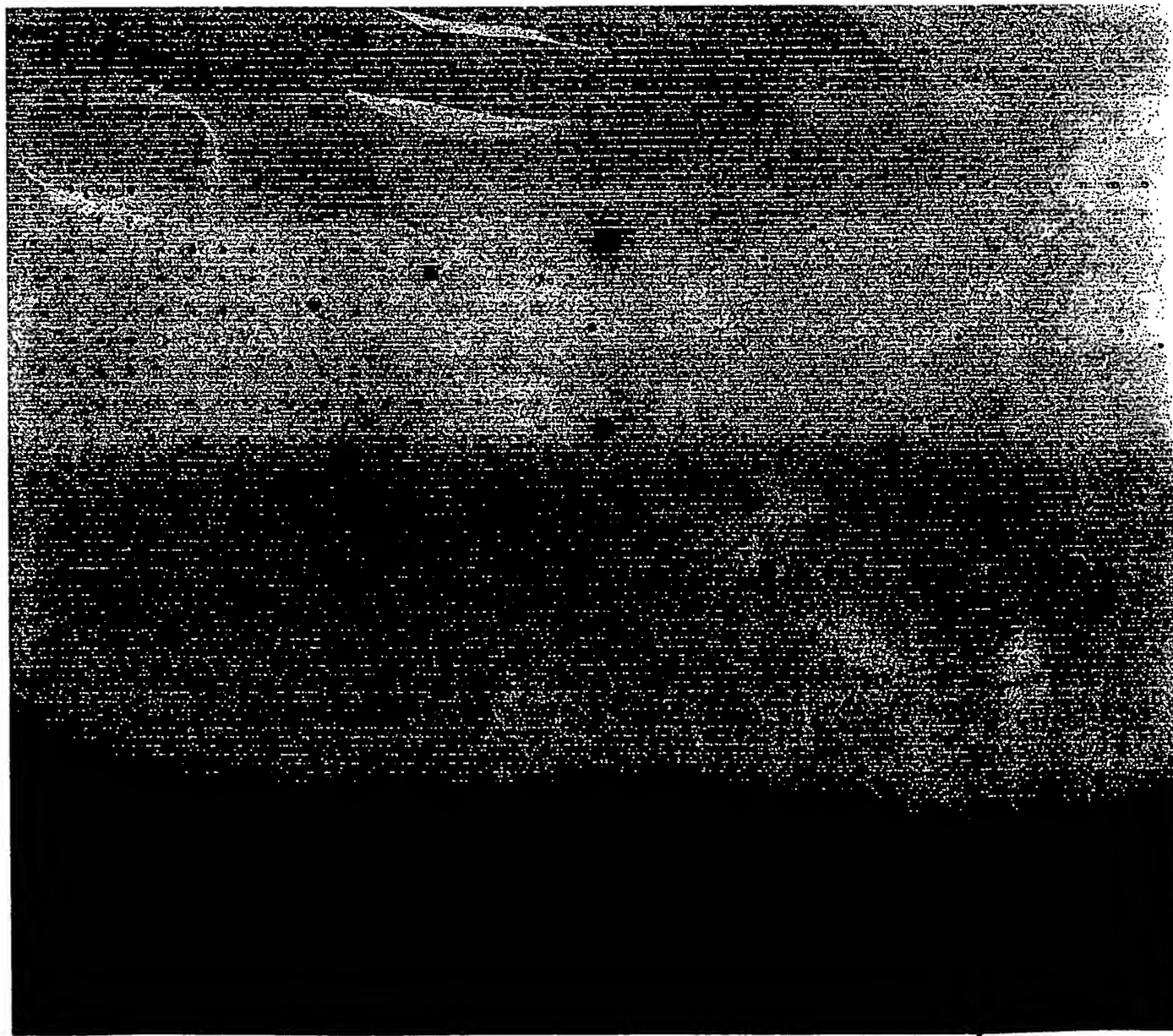
11724 118160 1.0 "11103" 0.2

FIGURE

34

GenePix Image - Wavelength 635

File name = 2004-03-29_0861.tif
Date = 2004/03/29 15:40:20
Origin = 4, 0 pixels
(0.04, 0 mm)
Size = 2180 x 1368 pixels
(21.8 x 13.68 mm)
Acquired: 2004-03-29 15:40:20
Scanner: MultiSpec 41 A 1.000
N. 4000000.0
EXT: 1.000
Laser: 635
Normalized: 1.000
Filter: 635/40
Focus Position: 0



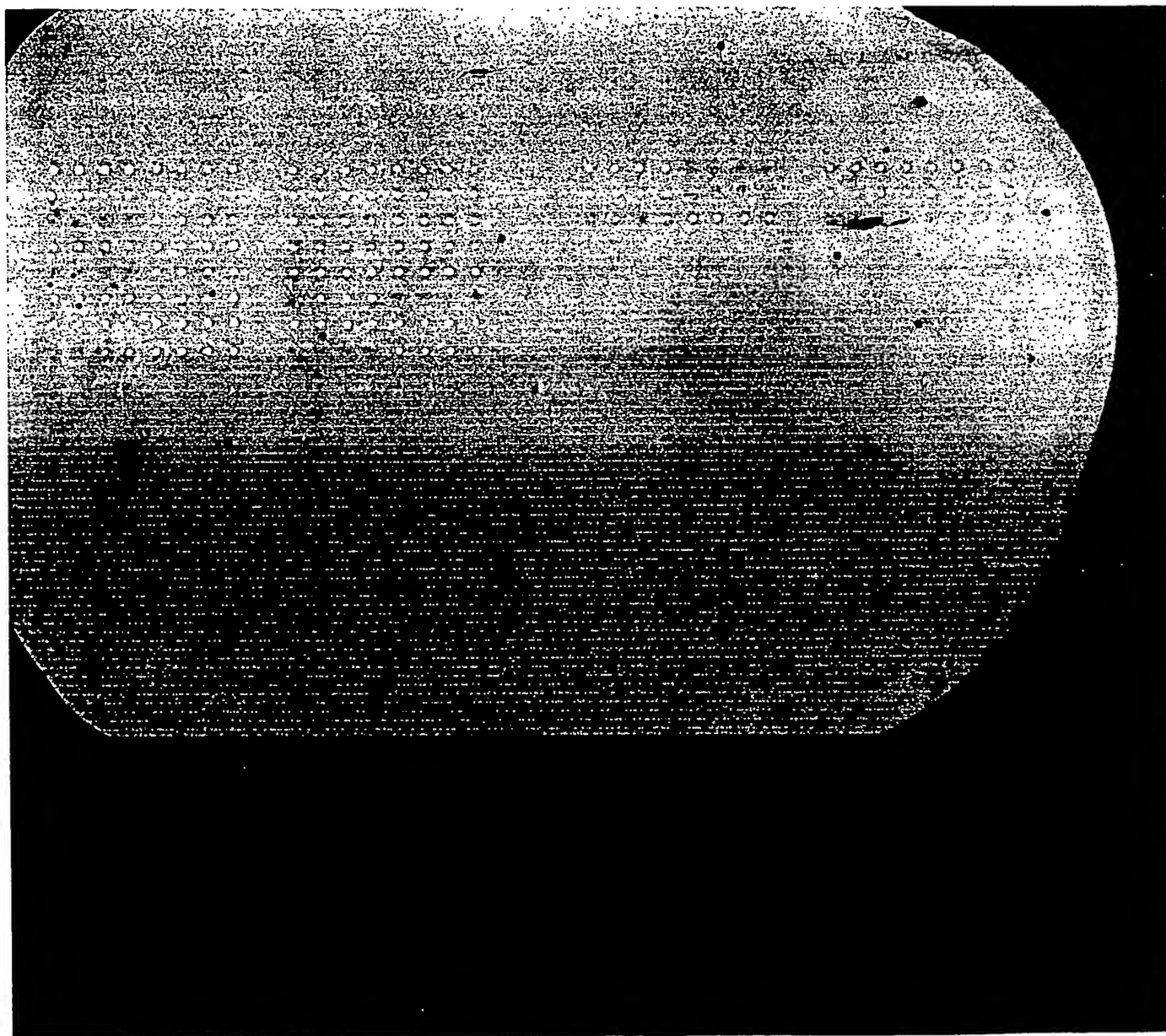
GenePix Image - Wavelength 635

FIGURE
35

File name = 2004-03-29_0863.tif
Date = 2004/03/29 15:48:56
Origin = 4, 0 pixels
(0.04, 0 mm)
Size = 2180 x 1368 pixels
(21.8 x 13.68 mm)
GenePix 4.1.0 A
Filter=CT301F4
Focus Position=0

by: 38,000

1.012 1.000

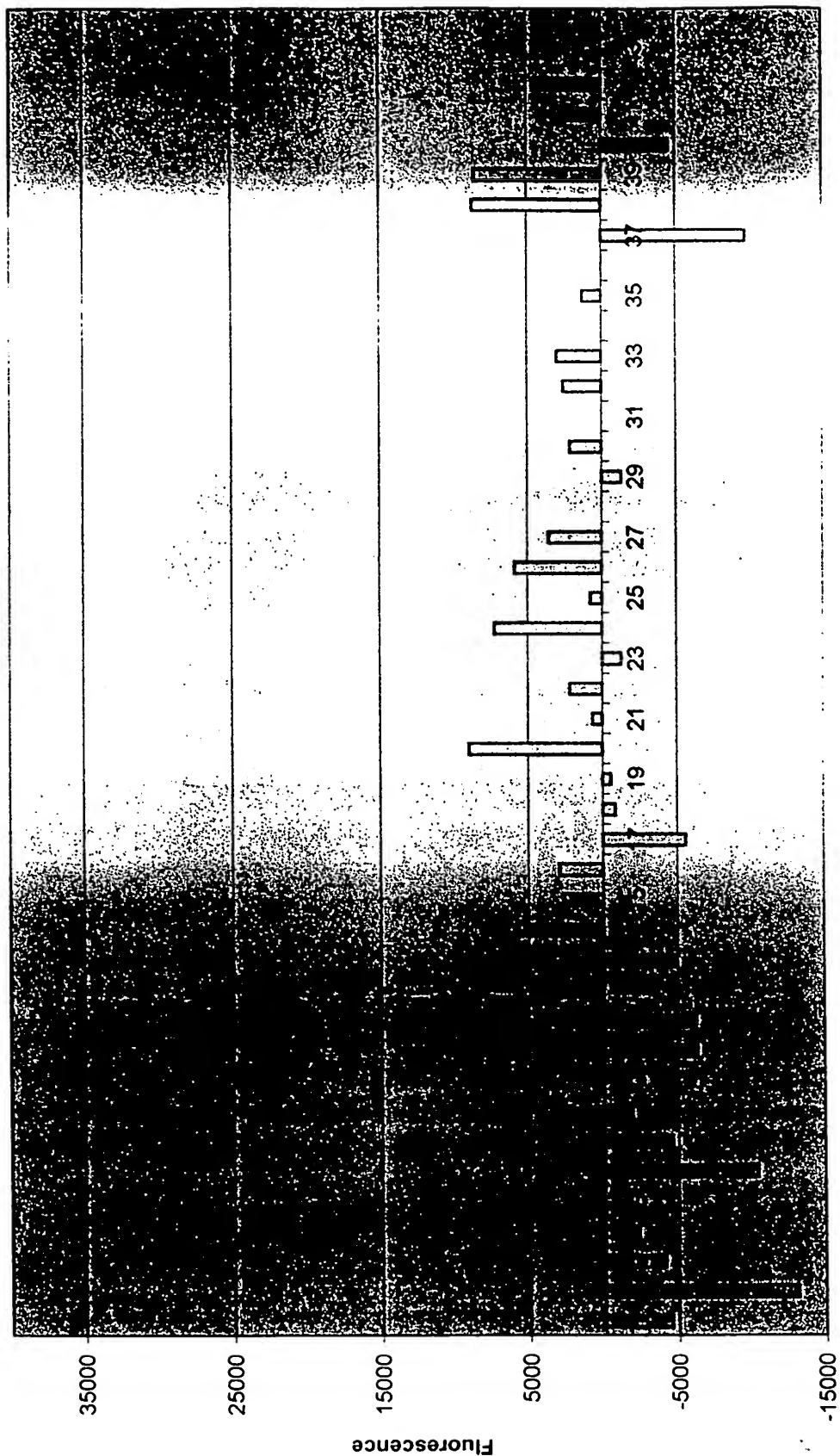


2004/03/29 16:55:30

99-53-6 | 03/29

FIGURE 36

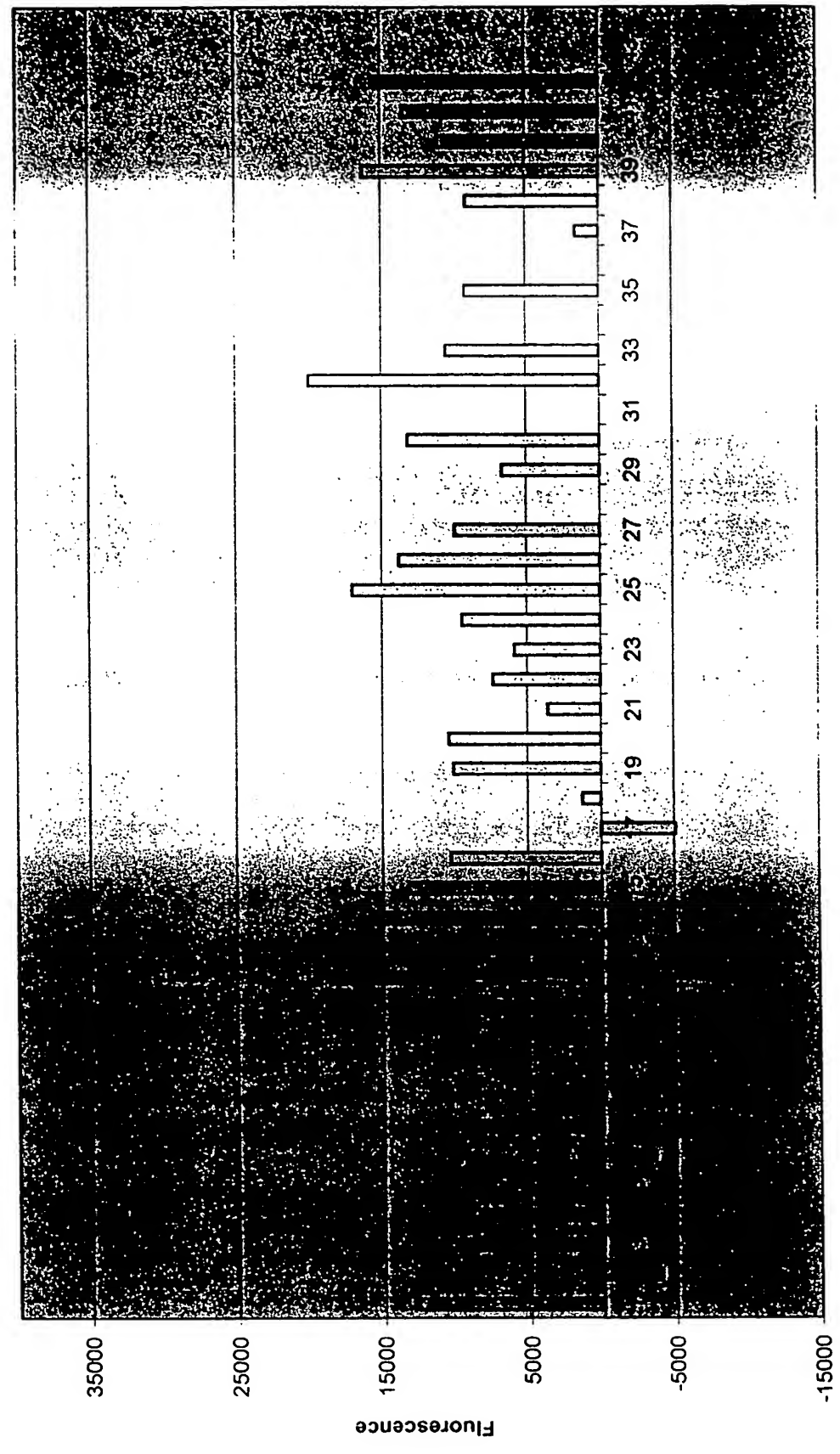
CARA DYNAMIC C18 / B.C. 1.0 CHO3 3C (N9n2, img 03-29-0861, PMT 600)



99-52-4 03/29

FIGURE 37

CARA DYNAMIC C18 / B.C. 1.0 CHO3 23C (N9n2, img 03-29-0854, PMT 600)

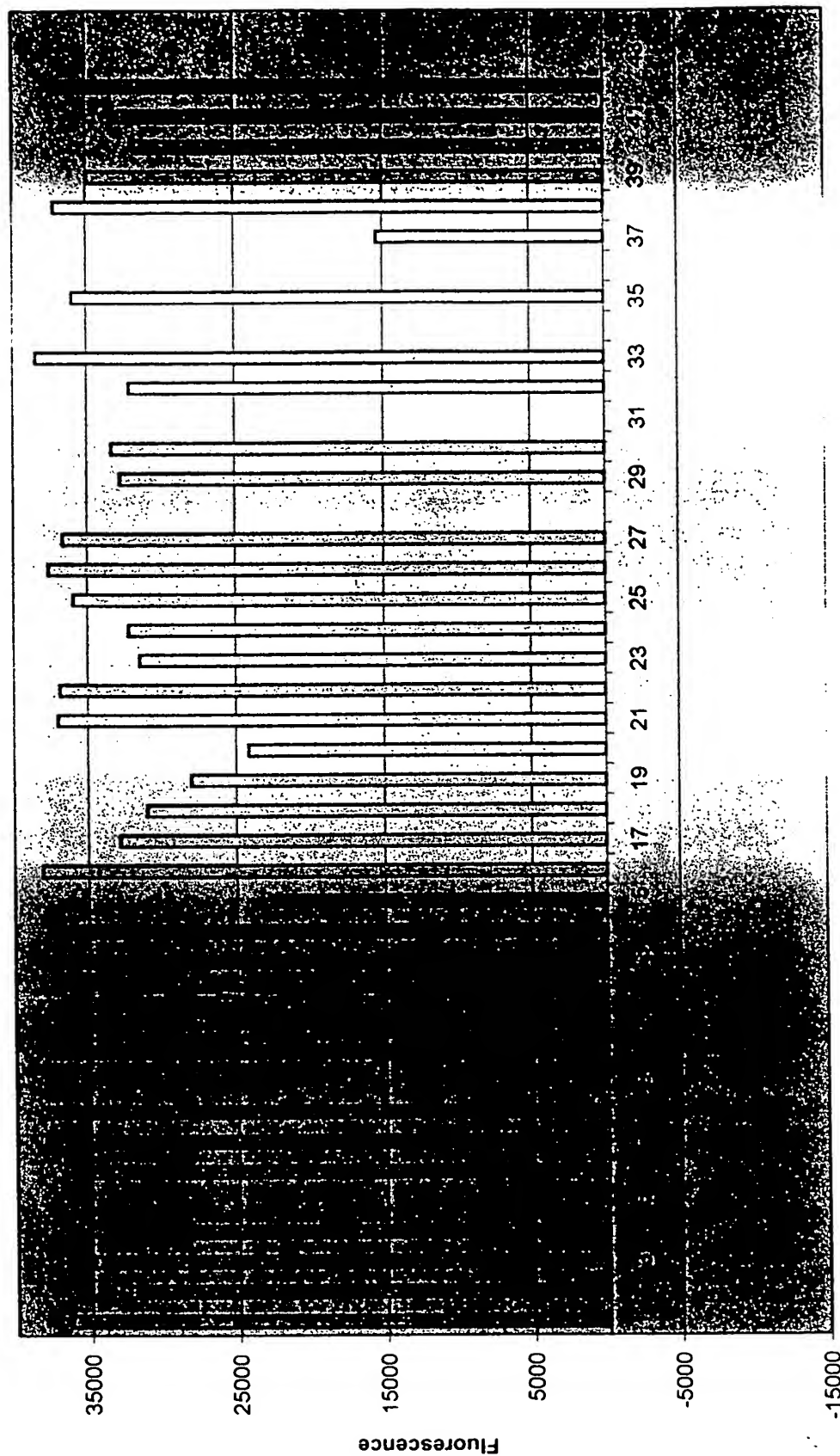


kbv

99-53-71 03/29

Figure 38

CARA DYNAMIC C18 / B.C. 1.0 CHO3 43C (N9n2, img 03-29-0863, PMT 560)

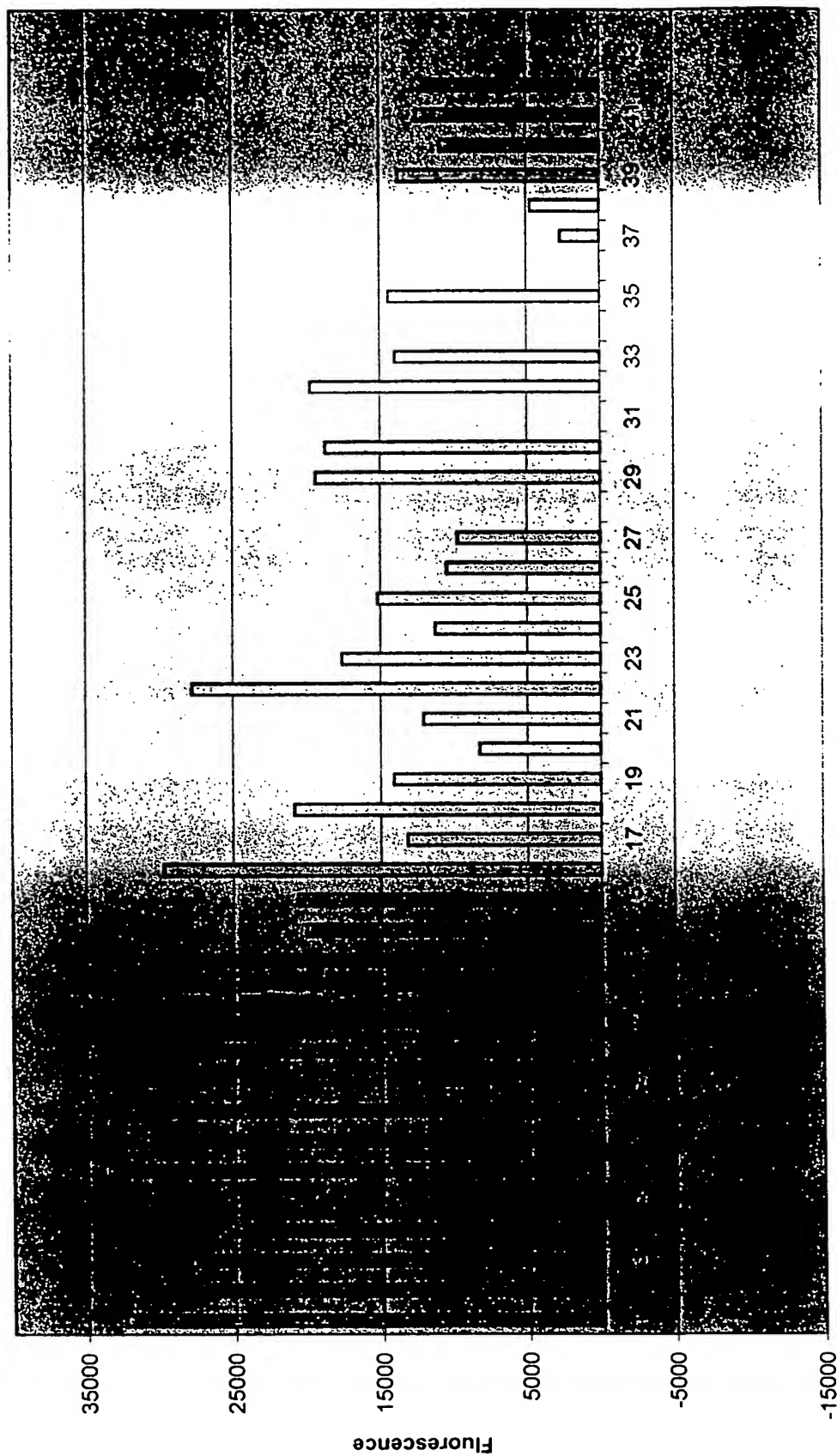


99-525 | 03/29

Figure 39

57877C

CARA STATIC 1.0 CHO2 23C (N9n2, img 10-09-0048, PMT 590)



99-54.1 | 03/29

FIGURE 40

CARA DYNAMIC Incubation Temperature with 1.0 CHO3

